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ASBESTOS

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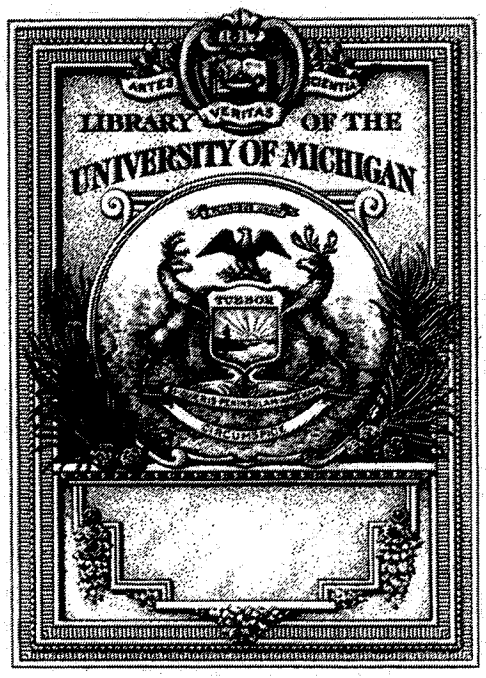

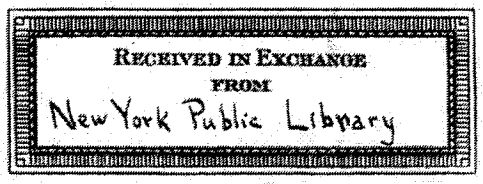

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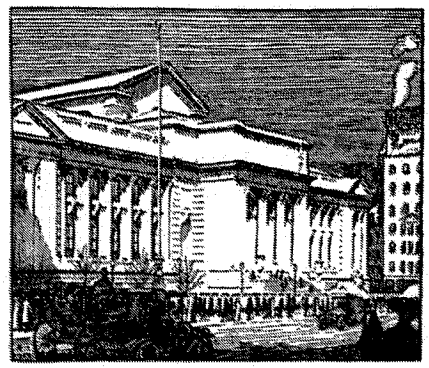

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1. **A.**, F. Asbestwaren und Stopfbüchsenpackungen. (Gummi-Zeitung, Berlin, 1918, Jahrg. 32, p. 183.) †† VMA

Effect of the war on the German asbestos industry.

2. The **Acoustile** treatment of walls and ceilings. (Asbestos, Philadelphia, 1923, v. 5, no. 4, p. 22.) VHA

Briefly describes method of the Mazer Acoustile Company.

3. **Active** demand for asbestos. (Stone, New York, 1916, v. 37, p. 300.) VEA

4. **Adressbuch** der deutschen Gummi-, Guttapercha- und Asbest-Industrie... Ausgabe 11 (1913). Berlin, 1913. 8°. VMV

5. **African** Asbestos Mining Co., Ltd. illus. (South African mining and engineering year book, 1928, Johannesburg, 1928, p. 337–339.)

Interesting views. † VHF

6. **African** notes. (Asbestos, Philadelphia, 1922, v. 4, no. 4, p. 40, 42.) VHA

Discusses advantages of a bounty which might be paid to South African producers.

7. **Against** raw asbestos embargo. (Engineering and mining journal, New York, 1922, v. 113, p. 833.) VHA

Opinion of W. G. Ross, president of the Asbestos Corporation of Canada.

8. **Agricola**, Georgius, the elder. Georgii Agricolæ de ortu et causis subterraneorum, lib. v. De natura eorum quæ effluunt ex terra, lib. iiii. De natura fossilium, lib. x... Basileae, 1558. 6 p., 1 l., 470 p., 20 l. f°. **Reserve**

See p. 253 for reference to lamp wicks, various names given to asbestos, occurrences, and characteristics.

9. **Aguilera**, José G. The geographical and geological distribution of the mineral deposits of Mexico. (American Institute of Mining Engineers, Transactions, New York, 1902, v. 32, p. 497–520.) VHA

Brief statement of occurrence, p. 499.

10. **Aitkin**, Thomas. Note on the modes of occurrence and localities of abriachanite. (Mineralogical magazine, London, 1880, v. 3, p. 69–71.) PWA

11. **Aldini**, Giovanni. Art de se preserver de l'action de la flamme, appliqué aux pompiers, at à la conservation des personnes exposées aux feu; avec une série d'experiences faites en Italie, à Genève at à Paris. illus. (American journal of science and arts, New Haven, 1831, v. 20, p. 96–121.) OA

Lengthy synopsis of book of above title. Tells how to prepare amianthus for spinning and weaving, and how asbestos paper and cloth may be used in fire prevention and as clothing for firemen. Noteworthy illustrations.

12. —— Vorrichtungen um die zum Feuerlöschen bestimmten Leute, eine gewisse Zeit hindurch gegen die Einwirkungen der Flamme zu schützen, und erweiterte Anwendung der Davys Sicherheits-Lampe. Mailand, 1828. 7 l., 1 pl. 8°. SX p.v.25, no.6

Reference to use of asbestos as fireproofing material. Illustration shows fireman clad in asbestos suit.

13. **All** about asbestos. A growing industry of Rhodesia and the Union — British South Africa contributing 13 per cent of the world's output — the Shabani, Transvaal and Cape deposits — increasing trade with America — new uses for asbestos — South African manufacturing depots — last year's production — valuable statistics — a new and bright factor in our mineral history. illus. (South African mining and engineering journal, Johannesburg, 1921, v. 30, part 1, p. 585–588.) †† VHA

14. The **Allbestos** Corporation. (Asbestos, Philadelphia, 1921, v. 2, no. 11, p. 45, 47.)

Account of plans and personnel. VHA

15. **Allen**, A. G. Asbestos packings and jointings. illus. (India rubber journal, London, 1920, v. 59, p. 829–830, 877–878, 921–925.) † VMV

16. **Allen**, E. T., and J. K. CLEMENT. The rôle of water in tremolite and certain other minerals. illus. (American journal of science, New Haven, 1908, series 4, v. 26, p. 101–118.) OA

17. **Allen**, E. T., and others. Minerals of the composition $MgSiO_3$; a case of tetramorphism. diagrs. (American journal of science, New Haven, 1906, series 4, v. 22, p. 385–438.) OA

Cited by Peacock in his paper on the origin of the amphibole-asbestos of South Africa.

18. Allen, Milton Arthur, and M. G. Butler. Asbestos. Tucson, 1921. 31 p., 1 pl. 8°. (University of Arizona bulletin no. 113. Mineral technology series no. 24.) **VHCA (Arizona)**

Describes Arizona occurrences, with a list of producers and prospective producers; also provisions of the U. S. law regulating prospects on Indian lands. Abstracted in *Canadian mining journal,* Gardenvale, 1921, v. 42, p. 662, † *VHA.*

19. Allied preference on asbestos shipments. (Engineering and mining journal, New York, 1918, v. 105, p. 702.) **VHA**

Imperial regulations for shipments of Canadian product.

20. Altmann, Ernst. Asbestine und ihre Verwendung in der Papier- und chemischen Industrie. (Chemiker-Zeitung, Cöthen, 1925, Jahrg. 49, p. 34–35.) **VOA**

Abstracted in *Asbestos,* Philadelphia, 1925, v. 6, no. 9, p. 26, 28, *VHA.*

21. Amalgamated Asbestos Corporation, Ltd. (Engineering and mining journal, New York, 1909, v. 87, p. 826, 1260.) **VHA**

Gives capitalization, subsidiary companies, and personnel.

22. American Asbestos Company. (Engineering and mining journal, New York, 1890, v. 50, p. 726.) **VHA**

Brief statement regarding property in Quebec.

23. American Society of Refrigerating Engineers. — Insulation Committee. Heat transmission of insulating materials; report of the Insulation Committee, annual meeting, 1922, revised to 1924... New York [1924?]. iii, 114 p. illus. 4°. † **VBA p.v.136, no.1**

See p. 79–82 for results of tests on various asbestos products.

24. American Trade Press Syndicate. The unique method of applying asbestos corrugated sheathing. illus. (Asbestos, Philadelphia, 1924, v. 5, no. 8, p. 8, 11–12, 14.) **VHA**

25. "Amianthus," pseud. Advice to Canadian asbestos producers. (Engineering and mining journal-press, New York, 1923, v. 116, p. 730.) **VHA**

To prevent price cutting.

26. El **Amianto** i sus aplicaciones. (Sociedad de fomento fabril, Boletín, Santiago, 1918, año 35, p. 250–251.) **VA**

27. Amosite. (American mineralogist, Lancaster, Penn., 1920, v. 5, p. 16; 1921, v. 6, p. 174.) **PWA**

Brief references to characteristics and nomenclature.

28. Amosite - - its growing popularity. (Asbestos, Philadelphia, 1928, v. 10, no. 5, p. 20–21.) **VHY**

29. The **Analysis** of asbestos and asbestos goods. illus. (India rubber journal, London, 1922, v. 63, p. 829–830.) † **VMV**

30. Anderson, Johann. .. Nachrichten von Island, Grönland und der Strasse Davis... Frankfurt und Leipzig, 1747. 15 p.l., 368 p., 4 l. illus. 12°. **Reserve**

Lengthy description of preparation and spinning in Siberia. Brief reference to this in *Gentleman's magazine,* London, 1747, v. 17, p. 174, * *DA.*

31. Andrew Johnson — pioneer in the asbestos mining field. illus. (Asbestos, Philadelphia, 1926, v. 8, July, p. 3–4, 6.) **VHA**

32. Der **Angebliche** "Brand" des Asbesthauses. (Gummi-Zeitung, Dresden, 1901. Jahrg. 15, p. 638.) †† **VMA**

Discusses the reported "burning" of Graf Waldersee's asbestos house in China.

33. Anthophyllite, amphibole and serpentine. (Asbestos, Philadelphia, 1927, v. 9, no. 3, Sept., p. 13–14, 16–18.) **VHA**

Brief characterizations.

34. Arizona. (Engineering and mining journal-press, New York, 1922, v. 114, p. 123.) **VHA**

Describes property and operations of the Triangle Asbestos Association.

35. Arizona asbestos industry growing. (Asbestos, Philadelphia, 1920, v. 1, no. 7, p. 23.) **VHA**

36. Arizona notes. (Asbestos, Philadelphia, 1921, v. 2, no. 9, p. 37–38, 41.) **VHA**

37. Arizona's asbestos industry shows signs of life. Contract signed recently, provides for regular deliveries in the East. Low iron content attracts. (Engineering and mining journal-press, New York, 1923, v. 115, p. 1166.) **VHA**

38. Arnold W. Koehler. port. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 13–14.) **VHA**

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39. An **Artist** uses asbestos. (Asbestos, Philadelphia, 1924, v. 6, no. 3, p. 41.) **VHA**

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40. Asbest im Altertum. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 395–396.) †† **VMA**

41. Asbest in Arizona. (Gummi-Zeitung, Berlin, 1921, Jahrg. 35, p. 1263–1264.) †† **VMA**

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42. Asbest in Ceylon. (Gummi-Zeitung, Dresden, 1899, Jahrg. 14, p. 53.) †† **VMA**

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43. Asbest als Isoliermaterial. (Gummi-Zeitung, Dresden, 1906, Jahrg. 20, p. 630–632.) †† **VMV**

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44. Asbest und Kieselguhr als Wärmeschutzmittel. (Gummi-Zeitung, Dresden, 1897, Jahrg. 12, p. 3.) †† **VMA**

Tests on asbestos-kieselguhr mixtures in comparison with other insulating materials.

45. Asbest aus Urua. (Gummi-Zeitung, Dresden, 1898, Jahrg. 13, p. 61.) †† **VMA**

Brief reference to mineral found in the Tanganyika district of Africa and its use among the natives.

46. Asbest-Bauten. (Gummi-Zeitung, Berlin, 1911, Jahrg. 26, p. 94–95.) †† **VMA**

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47. Asbest-Einlegesohlen. (Gummi-Zeitung, Dresden, 1898, Jahrg. 13, p. 61.) †† **VMA**

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48. Asbest-Kautschukwaren. (Gummi-Zeitung, Dresden, 1909, Jahrg. 23, p. 1592.) †† **VMA**

States advantages of rubber-asbestos composition.

49. Asbest-Minen in Spanien. (Gummi-Zeitung, Dresden, 1905, Jahrg. 20, p. 66.) †† **VMA**

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50. Asbest-Papier. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 635–636.) †† **VMA**

Statement of uses and essentials of good product.

51. Asbestbekleidungsstücke. (Gummi-Zeitung, Berlin, 1925, Jahrg. 39, p. 643.) †† **VMA**

States various uses of asbestos as clothing.

52. L'**Asbeste** en Sibérie. (L'Écho des mines, Paris, 1907, année 34, p. 679.) **3 – VHA**

Abstract in *Engineering and mining journal*, New York, 1907, v. 84, p. 346, *VHA*.

53. Asbestfaeden in Taschen-Feuerzeugen. (Gummi-Zeitung, Berlin, 1913, Jahrg. 27, p. 2049.) †† **VMA**

States advantages of asbestos wicks in pocket-lighters.

54. Asbestfunde in Finnland. (Gummi-Zeitung, Dresden, 1904, Jahrg. 18, p. 764.) †† **VMA**

55. Asbestfunde im Ural. (Chemische Industrie, Berlin, Jahrg. 32, 1909, p. 530.) **3 – VOA**

Abstract in *Journal of the Society of Chemical Industry*, London, v. 28, 1909, p. 1036, *VOA*.

56. Asbestgewinnung in Sibirien. (Gummi-Zeitung, Dresden, 1903, Jahrg. 17, p. 975.) †† **VMA**

Describes deposit near the Mongolian border.

57. Asbestindustrie im Gouvernement Orenburg. (Gummi-Zeitung, Dresden, 1909, Jahrg. 23, p. 1269.) †† **VMA**

Brief description of recent find in the province.

58. Asbestkautschukwaren. (Gummi-Zeitung, Berlin, 1914, Jahrg. 28, p. 1419–1420.) †† **VMA**

Criticizes methods of cheapening product.

59. Asbestos. v. 1–3 (Jan., 1918 – Oct., 1920). Rochdale, England: Turner Brothers Asbestos Co., Ltd., 1918–20. illus. 8°. **VLA**

Quarterly periodical which ceased publication with issue of Oct., 1920.

60. Asbestos, a monthly market journal devoted to the interests of asbestos and magnesia industries. v. 1 – date (Oct., 1919 – date). Philadelphia: Published by C. J. Stover, 1919 – date. illus. 12°. **VHA**

An excellent publication giving up-to-date and interesting news concerning the asbestos industry.

61. Asbestos. (Canadian mining journal, Toronto, 1910, v. 31, p. 710.) **VHA**

Editorial urging boycott by Canadians on asbestos goods manufactured abroad.

62. Asbestos. (Iron, London, 1877, v. 10, p. 195.) **3 – † VA**

General article on modes of occurrence and uses. Also in *Engineering and mining journal*, New York, 1877, v. 24, p. 328–329, *VHA*.

63. Asbestos. South African occurrences. A succinct review. (South African mining and engineering journal, Johannesburg, 1922, v. 33, part 1, p. 1503.) **VHA**

64. Asbestos in Alaska. (Asbestos, Philadelphia, 1920, v. 2, no. 2, p. 33.) **VHA**

Brief statement of occurrence.

65. Asbestos in the Argentine. (Asbestos, Philadelphia, 1919, v. 1, Dec., p. 18.) **VHA**

Brief statement of asbestos articles imported.

66. Asbestos in Argus caulk. (Asbestos, Philadelphia, 1925, v. 6, no. 10, p. 35.) **VHA**

Plastic material for filling cracks and crevices. Made of bitumen, gums, non-drying oils, and asbestos.

67. Asbestos and Asbestic Company, Ltd. (Engineering and mining journal, New York, 1897, v. 63, p. 219.) **VHA**

Company formed in London to make asbestos plaster.

68. Asbestos and Asbestic Company, Ltd. Abstracts of annual reports. (Engineering and mining journal, New York, 1900, v. 70, p. 402; 1901, v. 72, p. 97; 1902, v. 74, p. 414.) **VHA**

69. Asbestos and asbestos' patents. (Engineering and mining journal, New York, 1876, v. 22, p. 347.) **VHA**

Excellent review of early patents. See *American exchange and review*, Washington, 1876, for original article.

70. Asbestos in Australia. (Asbestos, Philadelphia, 1921, v. 2, April, p. 41–45.) **VHA**

Deals briefly with occurrences and operations in different states of the Commonwealth which supply a growing demand for the short-fibre variety.

71. Asbestos bags for aerial mail. (Asbestos, Philadelphia, 1919, v. 1, no. 5, p. 8.) **VHA**

Tested asbestos cloth used by the U. S. Post Office Department.

72. Asbestos boards. (Paper makers' monthly journal, London, 1912, v. 50, p. 240.) † **VMPA**

Brief description of manufacturing process.

73. [**Asbestos** in Brazil.] (Engineering and mining journal, New York, 1887, v. 43, p. 30.) **VHA**

Brief reference to discovery of deposits in the province of Goyaz.

74. Asbestos in buildings. (India rubber journal, London, 1903, v. 26, p. 442.) † VMV

Materials shown at the Paris Exhibition of Dwelling Houses.

75. Asbestos can be fine spun. (Engineering and mining journal, New York, 1920, v. 110, p. 62.) VHA

"Thread can now be spun so fine that the fiber will run about 32,000 ft. to the pound."

76. [**Asbestos** in Carroll county, Georgia.] (Engineering and mining journal, New York, 1892, v. 54, p. 517–518.) VHA

77. [**Asbestos** at Casper, Wyoming.] (Engineering and mining journal, New York, 1909, v. 88, p. 622.) VHA

78. Asbestos chimneys. illus. (Asbestos, Philadelphia, 1920, v. 1, no. 11, p. 35.) VHA

Patents applied for by Fred Patee, Casper, Wyoming.

79. [**Asbestos** cloth as a filtering medium.] (Engineering and mining journal, New York, 1897, v. 64, p. 271.) VHA

Perforated sheet lead used instead of asbestos in chlorination barrels.

80. Asbestos clothing. illus. (Asbestos, Philadelphia, 1920, v. 2, no. 1, p. 32–34.) VHA

81. Asbestos companies amalgamate. Bell's Asbestos Co. take over the United Asbestos Co. (India rubber journal, London, 1910, v. 39, p. 85.) † VMV

82. Asbestos Corporation of Canada. Abstract of annual report. (Engineering and mining journal, New York, 1913, v. 95, p. 638.) † VHA

83. —— [Abstracts of annual reports.] (Canadian mining journal, Toronto, 1915, v. 36, p. 162; 1921, v. 42, p. 180.) VHA

84. Asbestos Corporation earned $695,126 in 1927. (Engineering and mining journal, New York, 1928, v. 125, p. 754.) † VHA

85. Asbestos Corporation favors merger, but on its own terms. (Engineering and mining journal-press, New York, 1925, v. 119, p. 776.) VHA

86. Asbestos Corporation files suit against Keasby interests. (Engineering and mining journal, New York, 1927, v. 123, p. 107.) † VHA

87. Asbestos Corporation increases operating profits. (Engineering and mining journal, New York, 1927, v. 123, p. 454–455.) † VHA

88. Asbestos Corporation's employees called out. Recognition of union and wage increase demanded. Business conditions changing. (Engineering and mining journal, New York, 1920, v. 110, p. 920.) † VHA

89. Asbestos corrugated sheathing. The permanent and non-combustible building material — its composition and manufacture. illus. (Asbestos, Philadelphia, 1924, v. 5, no. 7, p. 6–8.) VHA

90. Asbestos curtain, Terry's Theatre. (Engineer, London, 1887, v. 64, p. 430.) VA

91. Asbestos in Cyprus. Good progress recorded. (India rubber journal, London, 1927, v. 73, p. 1038.) † VMV

Financial report of the Cyprus Asbestos Company.

92. Asbestos deposit being developed in Porcupine district. (Engineering and mining journal-press, New York, 1925, v. 119, p. 700.) VHA

93. Asbestos deposits in the Altai highlands — Russia. (Asbestos, Philadelphia, 1925, v. 7, Sept., p. 12, 14, 16, 18.) VHA

94. Asbestos deposits in Russia. (Engineering and mining journal, New York, 1887, v. 43, p. 399.) VHA

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95. [**Asbestos** deposits in the Urals.] (Engineering and mining journal, New York, 1909, v. 87, p. 812.) VHA

"The asbestos resources of this district are said to be second only to those of Canada."

96. Asbestos developments in South Africa. illus. (South African mining and engineering journal, Johannesburg, 1928, v. 38, part 2, p. 665.) †† VHA

Views of Mr. Roland Starkey on blue asbestos prospects. He does not believe that there will be any further discoveries of importance on the known serpentine belts of Rhodesia.

97. Asbestos discovery. (Engineering and mining journal, New York, 1889, v. 48, p. 393.) VHA

South African "veins of asbestos, said to be the richest and the finest that anyone has ever seen."

98. Asbestos discovery. (Engineering and mining journal, New York, 1900, v. 70, p. 497.) VHA

Short fiber variety found in Habersham county, Georgia.

99. Asbestos dryer felt. (Asbestos, Philadelphia, 1924, v. 5, no. 12, p. 19.) VHA

Brief description of material used in paper drying.

100. The **Asbestos** fields of Africa. illus. (Asbestos, Philadelphia, 1923, v. 4, no. 9, p. 16–18, 20–22, 24, 29.) VLA

Cross fibred white chrysotile worked commercially at Shebanie, Mashaba, and Barberton.

101. The **Asbestos** fields of Russia. (Mining world, Chicago, 1910, v. 33, p. 559.) VHA

102. Asbestos in Finland. (Engineering and mining journal, New York, 1903, v. 76, p. 849.) VHA

103. Asbestos and fire-proofing. (India rubber journal, London, 1913, v. 46, p. 566.) † VMV

Use of asbestos linings for car roofs.

104. Asbestos in foreign countries. (United States. — Bureau of Manufactures, Department of Commerce, Daily consular and trade reports, Washington, 1912, no. 92, April 18, 1912, p. 241–245.) **TLG**

Statistics for Germany, Switzerland, England, Russia, Italy, Rhodesia, Canada, and the United States.

105. Asbestos found in Revelstoke district, B. C. (Engineering and mining journal-press, New York, 1926, v. 121, p. 818.) **VHA**

106. Asbestos found by Swiss Family Robinson. (Asbestos, Philadelphia, 1925, v. 6, no. 8, p. 14.) **VHA**

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107. Asbestos furnace cement, a few points of interest. (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 14.) **VHA**

108. Asbestos in Greenland. (India rubber journal, London, 1913, v. 46, p. 1030.) † **VMV**

Brief reference to property of a Danish company.

109. Asbestos in hat making. (Asbestos, Philadelphia, 1928, v. 10, no. 5, p. 14, 16.) **VHA**

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110. Asbestos high pressure jointing. illus. (India rubber journal, London, 1922, v. 64, p. 60–61.) **VHA**

Describes manufacture. Reprinted in *Asbestos*, Philadelphia, 1922, v. 4, no. 6, p. 10, 12–14, 16, *VHA*.

111. Asbestos hot bag. (India rubber journal, London, 1907, v. 33, p. 295–296.) † **VMV**

Bed warmer introduced in Scotland.

112. An **Asbestos** house for Field-Marshal Count von Waldersee. (India rubber journal, London, 1900, v. 20, p. 187; 1901, v. 21, p. 345, 532.) † **VMV**

Brief references to house to be used in China.

113. Asbestos on Indian reservations now open to location. Claims containing this mineral said to have been filed on already by subterfuge. (Engineering and mining journal, New York, 1921, v. 111, p. 682–683.) **VHA**

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114. The **Asbestos** industry. (Canadian mining journal, Gardenvale, 1920, v. 41, p. 691.) **VHA**

Editorial discussion of Canada's export policy.

115. The **Asbestos** industry. (Chemical trade journal, London, 1926, v. 78, p. 625–627.) † **VOA**

Good general article covering economic fluctuations, varieties of asbestiform minerals, geographical distribution, and a table of physical properties of chrysotile, crocidolite, and amosite.

116. The **Asbestos** industry. (Engineering and mining journal, New York, 1919, v. 107, p. 51.) **VHA**

Review of year's developments in United States, Canada, and South Africa.

117. The **Asbestos** industry in Great Britain. (Asbestos, Philadelphia, 1919, v. 1, no. 6, p. 19–20.) **VHA**

118. The **Asbestos** industry in Japan. (Canadian Mining Institute, Bulletin, Montreal, June, 1918, no. 74, p. 509–510.) **VHA**

Also in *Journal of the Society of Chemical Industry*, London, 1918, v. 37, p. 300r, *VOA*.

119. The **Asbestos** industry in Quebec. (Engineering and mining journal, New York, 1901, v. 71, p. 236.) **VHA**

Statement of current activities.

120. The **Asbestos** industry [in Russia]. (Economic review of the Soviet Union, New York, 1928, v. 3, p. 222.) † **TAA**

Account of new discoveries. Abstracted in *Asbestos*, Philadelphia, 1928, v. 10, no. 1, p. 22, 24, *VHA*.

121. The **Asbestos** industry in Russia. (India rubber journal, London, 1924, v. 68, p. 964.) † **VMV**

Brief references to deposits. Some interesting figures regarding the Uralasbest Trust.

122. The **Asbestos** industry of southern Rhodesia. illus. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 551–555, 587–591.) † **VHA**

Describes the ore bodies on Shabani property; mining and milling at the Nil desperandum mine.

123. The **Asbestos** industry. U. S. and Canadian rivalry. (India rubber journal, London, 1922, v. 63, p. 651.) † **VMV**

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124. Asbestos interests in Quebec consolidate; control new process. Black Lake and East Broughton properties involved. Rights to wet process are asset of new company. (Engineering and mining journal-press, New York, 1924, v. 118, p. 346.) **VHA**

125. Asbestos and its applications. (Engineering and mining journal, New York, 1883, v. 36, p. 228–229.) **VHA**

Uses of asbestos for engine packing, theatre curtains, fire-shields, pipe joints, cord, and millboard.

126. Asbestos and its embargo. (India rubber world, New York, 1916, v. 54, p. 462.) † **VMV**

Editorial comment on Canadian situation.

127. Asbestos, its manufacture and uses. (Engineering and mining journal, New York, 1885, v. 39, p. 245–246.) **VHA**

Describes occurrence and characteristics of Italian asbestos and details methods for its preparation and spinning.

128. Asbestos and its manufactures. (Commerce monthly, New York, April, 1924, v. 5, p. 27–30.) **TLA**

General article. Abstracted in *Canadian mining journal*, 1924, v. 45, p. 374–375, *VHA*.

129. Asbestos: its origin and production. (Chemical world, London, 1913, v. 2, p. 28–29.) **VOA**

130. Asbestos in Japan. (Engineering and mining journal, New York, 1909, v. 88, p. 59.) **VHA**

131. Asbestos in Madagascar. (Asbestos, Philadelphia, 1924, v. 6, no. 2, p. 9.) **VHA**
Brief statement concerning amphibole found there.

132. Asbestos mail containers. illus. (Asbestos, Philadelphia, 1920, v. 2, no. 4, p. 27–28.) **VHA**
Used by the U. S. Post Office Department.

133. Asbestos in the Malipsdrift area. An account of the occurrences. Fibre variations. Remarkably high percentages. Progress at South African Consolidated property. illus. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 639–641.) †† **VHA**
Abstracted in *Asbestos*, Philadelphia, 1928, v. 10, no. 4, p. 21–22, *VHA*.

134. Asbestos in many lands. (Asbestos, Philadelphia, 1920, v. 1, no. 7, p. 35.) **VHA**
A list of places where asbestos is found.

135. Asbestos — a marvel of the ages. illus. (Contractors' and engineers' monthly, New York, 1921, v. 3, no. 5, p. 44–46.) **VDA**
General article.

136. The **Asbestos** merger. (Canadian mining journal, Toronto, 1909, v. 30, p. 385–386.) **VHA**
Criticizes the data of Mr. Fritz Cirkel.

137. The **Asbestos** merger. (Canadian mining journal, Gardenvale, 1925, v. 46, p. 584.) **VHA**

138. The **Asbestos** merger. (Canadian mining journal, Gardenvale, 1925, v. 46, p. 749–750.) **VHA**
Reasons for suspended negotiations.

139. The **Asbestos** merger. (Engineering and mining journal-press, New York, 1925, v. 119, p. 514.) **VHA**
Editorial comment.

140. Asbestos mills in Quebec. illus. (Engineering and mining journal, New York, 1919, v. 107, p. 570–571, 830–831, 1042–1043; 1919, v. 108, p. 825–827. **VHA**
Photographic views from the Quebec field.

141. Asbestos and Mineral Corporation. Asbestos, from mine to finished product. New York: Asbestos and Mineral Corporation, 1919. 2 p.l., 1–8–194 p. illus. 4°. **VHT**
A series of plates with descriptive letter-press.

142. —— Asbestos production in Canada. Asbestos, Philadelphia, 1921, v. 2, no. 10, p. 4–5. **VHA**
Statistics, 1913–1919 inclusive.

143. —— Variance in asbestos chemically. (Asbestos, Philadelphia, 1920, v. 1, no. 8, p. 15.) **VHA**
Analyses of several Canadian samples.

144. Asbestos miners deport manager at Thetford mines. Striking employees resent presence of armed guards. (Engineering and mining journal-press, New York, 1923, v. 115, p. 812.) **VHA**

145. Asbestos mines in California. (Engineering and mining journal, New York, 1877, v. 24, p. 404.) **VHA**
Reports a large vein in Calaveras county.

146. Asbestos mines in China. (India rubber journal, London, 1911, v. 42, p. 735.) † **VMV**
Good quality found at Kuantien.

147. Asbestos Mines, Ltd., declared insolvent by court. (Engineering and mining journal-press, New York, 1926, v. 121, p. 66.) **VHA**

148. [**Asbestos** mines at Thetford.] (Engineering and mining journal, New York, 1889, v. 48, p. 80.) **VHA**
Brief statement regarding operations.

149. [**Asbestos** mining in Asiatic Russia.] illus. (Canadian mining review, Ottawa, 1903, v. 22, p. 110–111.) **VHA**
Panoramic views of the Corewo and Baron Girar de Soukanon mines.

150. Asbestos mining in China. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 34.) **VHA**
Brief statement of occurrences.

151. Asbestos mining in Quebec. illus. (Canadian mining review, Montreal, 1905, v. 24, p. 126–128; v. 25, p. 116–118.) **VHA**
Views of mills and quarries of the Asbestos and Asbestic Company, and of the Standard Asbestos Company.

152. Asbestos mining in Quebec. chart. (Canadian mining journal, Toronto, 1912, v. 33, p. 453–457.) **VHA**
Discusses conditions at the principal mines, with trade views of some of the managers.

153. Asbestos mining in Vermont. (Asbestos, Philadelphia, 1921, v. 2, no. 9, p. 41, 43–44.) **VHA**
History of the industry in that state.

154. Asbestos mittens in the rubber mill. illus. (India rubber world, New York, 1922, v. 66, p. 607–608.) † **VMV**

155. Asbestos — the most important mineral. (Asbestos, Philadelphia, 1929, v. 10, no. 9, p. 27–28.) **VHA**
Discusses important uses.

156. Asbestos moulds in metal foundries. (India rubber journal, London, 1920, v. 59, p. 313.) † **VMV**

157. Asbestos museum. (Asbestos, Philadelphia, 1920, v. 2, no. 4, p. 46.) **VHA**
Effort to establish museum in New York City.

158. [**Asbestos** in New South Wales.] (Engineering and mining journal, New York, 1891, v. 52, p. 56.) **VHA**

Brief reference to occurrence at Redhill, near Brokenhill.

159. **Asbestos** in New Zealand. (Engineering and mining journal, New York, 1898, v. 65, p. 403.) **VHA**

Property on the Upper Takaka river worked by the New Zealand Asbestos Company.

160. **Asbestos** in New Zealand. (India rubber journal, London, 1920, v. 59, p. 150.) † **VMV**

Abstract of report of committee of the House of Representatives on the best means of encouraging the industry.

161. **Asbestos** once again. (Canadian mining journal, Toronto, 1909, v. 30, p. 418.) **VHA**

Editorial comment on Black Lake Consolidated Asbestos Company merger.

162. **Asbestos** from Ontario. illus. (Engineering and mining journal, New York, 1917, v. 103, p. 488.) **VHA**

163. **Asbestos** in Ontario. (Canadian mining journal, Gardenvale, 1925, v. 46, p. 402.) **VHA**

Brief statement of occurrences.

164. **Asbestos** or "other fireproof material." (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 6, 8.) **VHA**

Suggests that manufacturers cooperate to secure definiteness in specifications covering fireproof curtains for theatres.

165. **Asbestos** packing now made in the United States. (Engineering and mining journal, New York, 1916, v. 101, p. 1034.)

Brief reference to "Goodyearite." **VHA**

166. **Asbestos** packings. illus. (India rubber journal, London, 1922, p. 17–18.) † **VMV**

Describes manufacture.

167. **Asbestos** packings. (India rubber world, New York, 1914, v. 51, p. 68.) † **VMV**

German suggestion for guaranteed quality.

168. **Asbestos** paper standards. (Asbestos, Philadelphia, 1924, v. 5, no. 8, p. 29.) **VHA**

Sizes of paper and millboard recommended by the Asbestos Paper Manufacturers Association.

169. **Asbestos** plant for Globe, Ariz., is talked of. (Engineering and mining journal-press, New York, 1924, v. 117, p. 416.) **VHA**

170. **Asbestos** plastic and liquid roofing cement. (Asbestos, Philadelphia, 1922, v. 4, no. 4, p. 11–13.) **VHA**

171. **Asbestos** plate or "slate" tests. (India rubber journal, London, 1902, v. 24, p. 262.) † **VMV**

Account of fire tests made at the Royal Testing Station, Charlottenburg, Germany.

172. **Asbestos** powder. (Engineering and mining journal, New York, 1876, v. 21, p. 347.) **VHA**

Pipe joint paste made from powdered asbestos and liquid silicate of soda.

173. **Asbestos** producers' amalgamation. (Chemical age, London, 1928, v. 19, p. 366.) **VOA**

Brief note concerning amalgamation of Turner and Newall, of Rochdale, and Bell's United Asbestos Co., Ltd.

174. **Asbestos** production and consumption. Resources of Canada. (India rubber journal, London, 1922, v. 64, p. 760–761.) † **VMV**

Abstract of bulletin of the Natural Resources Intelligence Branch of the Canadian Government. Treats of world's production, varieties, and uses, and has a list of Canadian companies.

175. **Asbestos** production of South Africa and the grades marketed. (Engineering and mining journal-press, New York, 1925, v. 119, p. 733.) **VHA**

176. **Asbestos** production in the Ural district. (Engineering and mining journal, New York, 1916, v. 102, p. 587.) **VHA**

Brief reference to production for 1915.

177. **Asbestos** as a protective edging for machine belting. (India rubber journal, London, 1926, v. 71, p. 144.) † **VMV**

178. **Asbestos** research. (India rubber journal, London, 1923, v. 65, p. 260.) † **VMV**

Fellowship established at Mellon Institute, Pittsburgh, Penn.

179. **Asbestos** resources of Canada. (Canadian textile journal, Gardenvale, Quebec, Feb. 20, 1923, v. 40, p. 170.) **VHA**

180. **Asbestos** roofing for inclines. (American roofer, Chicago, 1928, v. 18, no. 5, p. 26.) **VEA**

H. F. Watson Company's Woerheide roofing for 3-inch inclines or greater.

181. **Asbestos** royalty reduced. (Engineering and mining journal-press, New York, 1922, v. 114, p. 779, 910.) **VHA**

182. **Asbestos** in the seventeenth century. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 35–36.) **VHA**

183. **Asbestos** shingle tariff decision. (Asbestos, Philadelphia, 1928, v. 9, no. 11, p. 43–44.) **VHA**

184. [**Asbestos** in Siskiyou county, California.] (Engineering and mining journal, New York, 1891, v. 52, p. 274.) **VHA**

Report of fiber 18 inches in length.

185. The **Asbestos** situation in Europe. (Asbestos, Philadelphia, 1920, v. 2, no. 2, p. 27, 30.) **VHA**

Excerpts of letter from Mr. B. Marcuse, president of the Asbestos and Mineral Corporation.

186. [**Asbestos** in Skagit county, Washington.] (Engineering and mining journal, New York, 1891, v. 51, p. 362.) **VHA**

187. **Asbestos** in Skagit county, Washington. (Engineering and mining journal, New York, 1896, v. 62, p. 135; 1898, v. 65, p. 383.) **VHA**

188. **Asbestos** slates. (Engineering and mining journal, New York, 1908, v. 85, p. 467.) **VHA**

Characteristics of artificial slate made by Munich firm.

189. **Asbestos** in South Africa. (Salt Lake mining review, Salt Lake City, 1920, v. 22, Nov. 15, p. 36.) **VHA**

190. [**Asbestos** in South Dakota.] (Engineering and mining journal, New York, 1891, v. 52, p. 55.) **VHA**

Occurrence at Central Hills.

191. [**Asbestos** in Spain.] (Asbestos, Philadelphia, 1922, v. 3, no. 8, p. 22.) **VHA**

192. **Asbestos** in the state of Washington. (Asbestos, Philadelphia, 1925, v. 6, no. 8, p. 9.) **VHA**

193. **Asbestos** substitutes and similarities. illus. (India rubber journal, London, 1922, v. 63, p. 895–896.) † **VMV**

Slag wool, spun glass, soapstone, talc, fossil meal, and wood pulp.

194. The **Asbestos** tangle. (Canadian mining journal, Gardenvale, 1924, v. 45, p. 322.) **VHA**

Proposes control by Canadian government.

195. **Asbestos Textile Company.** Aztec brake lining made of asbestos... Sizes for all cars, trucks and busses. New York City: Asbestos Textile Co., cop. 1928. xii, 64 p. tables. 4°. **VBA p.v.153**

196. **Asbestos** in time of war. (Engineering and mining journal, New York, 1926, v. 122, p. 1–2.) † **VHA**

Brief editorial discussion concerning tariff.

197. **Asbestos** for tire fabric. (India rubber world, New York, 1917, v. 5, p. 218.) † **VMV**

Mentioned as possible substitute for cotton.

198. **Asbestos** trade's output. (India rubber journal, London, 1927, v. 73, p. 815.) † **VMV**

Abstract of British census of production of 1924.

199. **Asbestos** in the Union of South Africa. diagr. (South African mining and engineering journal, Johannesburg, 1926, v. 37, p. 485–486.) † **VHA**

200. **Asbestos** in the Urals. (Engineering and mining journal, New York, 1912, v. 93, p. 886.) **VHA**

Statistics for 1911.

201. **Asbestos** in the war. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 17–20.) **VHA**

202. **Asbestos** waste as a soil corrector. (Asbestos, Philadelphia, 1927, v. 8, no. 8, Feb., p. 14, 16.) **VHA**

Experiments with alfalfa.

203. **Asbestos** — what it is. (Paper, New York, 1911, v. 5, no. 8, p. 13.) † **VMPA**

General article.

204. The **Asbestos-bearing** belt of eastern United States. (Mining and scientific press, San Francisco, 1920, v. 120, p. 160.) **VA**

205. **Asbestos-protected** steel. (Engineering and mining journal, New York, 1913, v. 96, p. 891; 1915, v. 99, p. 950; 1915, v. 100, p. 807.) **VHA**

Titles of articles vary.

206. **Asbestpulver.** (Gummi-Zeitung, Berlin, 1921, Jahrg. 35, p. 768.) †† **VMA**

Brief statement of uses.

207. **Auchy,** George. Retention of moisture by asbestos. (American Chemical Society, Journal, Easton, Penn., v. 22, 1900, p. 46–47.) **PKA**

Abstract in *Journal of the Society of Chemical Industry,* London, v. 19, 1900, p. 275, *VOA; Journal of the Chemical Society,* London, 1900, v. 78, part 2, p. 309, *PKA.*

208. The **Australian** deposits of asbestos. (Asbestos, Philadelphia, 1925, v. 6, no. 7, p. 26–28.) **VHA**

209. **Automobiles** and asbestos. (Asbestos, Philadelphia, 1923, v. 4, no. 12, p. 29, 31.) **VHA**

Statistics of use in brake-linings, gaskets, cylinder heads, chassis, and clutch-rings.

210. **Automobiles** and the asbestos industry. (Automotive industries, Philadelphia, 1922, v. 46, p. 520–522.) † **TOL**

"One-half of the asbestos manufactures of the United States is consumed by the automotive industries and car owners." Also in *Raw material,* 1922, v. 5, p. 184–186, † *VIA.*

211. **B., E. G.** Asbestos industry flourishing at Prieska. Record output recorded. Opportunities for the "small man." Some selling points. (South African mining and engineering journal, Johannesburg, 1927, v. 38, part 1, p. 575.) †† **VHA**

212. —— Blue asbestos industry. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 652–653.) †† **VHA**

"As a result of the increased prices a number of new or closed-down properties are being opened."

213. —— The blue asbestos market. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 96–97.) †† **VHA**

"Increase of production can only take place very slowly, owing to the very thin and extended nature of the deposits."

214. —— Blue asbestos notes. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 506.) †† **VHA**

Operations in the Prieska region.

215. —— Co-operation among blue asbestos producers. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 700–701.) †† VHA

216. A Backward glance. (Asbestos, Philadelphia, 1929, v. 10, no. 7, p. 2–4.) VHA
Review of notable events in the industry during 1928.

216a. Bailey, Dorothy, and K. C. Bailey. An etymological dictionary of chemistry and mineralogy. London: Edward Arnold and Co., 1929. viii, 307 p. 8°. PKF

217. Baker, E. Carleton. Asbestos deposits in West China. (United States. — Bureau of Foreign and Domestic Commerce, Commerce reports, Washington, no. 171, July 22, 1915, p. 393.) TLG (U. S.)
Brief notice. Also in *Journal of the Society of Chemical Industry*, London, 1915, v. 34, p. 870, *VOA*.

218. Banerjea, S. B. Asbestos in India. (Asbestos, Philadelphia, 1922, v. 4, no. 3, p. 42, 45.) VHA

219. —— The asbestos trade of India. (Asbestos, Philadelphia, 1923, v. 5, no. 2, p. 33–34, 36.) VHA

220. —— The asbestos trade of India. (Engineering and mining journal-press, New York, 1923, v. 115, p. 616.) VHA

221. —— Production statistics [in India]. (Asbestos, Philadelphia, 1923, v. 4, no. 11, p. 34, 36.) VHA

222. Barba, W. P. The use of asbestos in filtration. (Journal of analytical and applied chemistry, Easton, Pa., 1892, v. 6, p. 35.) PKA
Use in chemical analysis. Also in *Engineering and mining journal*, New York, 1892, v. 53, p. 305, *VHA*; *Chemical news*, London, 1892, v. 65, p. 101, *PKA*.

223. Barberton asbestos. The new Amianthus an outstanding mine. A high, long fibre percentage. Munnik Myburgh a steady producer. Big development in prospect. American interests busy. illus. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 2, p. 462–468.) †† VHA

224. Barlow, A. E. Notes on the origin of asbestos. (Canadian Mining Institute, Journal, Montreal, 1910, v. 13, p. 438–443.) VHA
With discussion.

225. Barrow, F. H. The asbestos industry in central Wyoming. illus. (Engineering and mining journal, New York, 1910, v. 90, p. 559.) VHA

226. Barrow, G., and H. H. Thomas. On the occurrence of metamorphic minerals in calcareous rocks in the Bodmin and Camelford areas, Cornwall. (Mineralogical magazine, London, 1908, v. 15, p. 113–123.) PWA
For occurrence of amphibole see p. 120–121.

227. Barton, R. A. Natal asbestos. (South African mining and engineering journal, Johannesburg, 1922, v. 33, p. 1293–1294.) VHA

228. Bateman, Alan M. An Arizona asbestos deposit. illus. (Economic geology, New Haven, 1923, v. 18, p. 663–680.) PTA
With discussion, p. 681–683.
Property in the Sierra Ancha mountains operated by the American Ores and Asbestos Company.

229. Bauer, Max. Über natronhaltige Asbeste. (Neues Jahrbuch für Mineralogie, Stuttgart, 1882, Jahrg. 1882, Bd. 1, p. 158–161.) PWA
Abstract in *Journal of the Chemical Society*, London, 1882, v. 42, Abstracts, p. 475–476, *PKA*.

229a. Bayer, Fritz. Studien über Asbest. illus. (Kunststoffe, München, 1916, Jahrg. 8, p. 89–92, 119–121, 129–131, 146–149.) †† VA
Important investigation on the relative properties of chrysotile and blue asbestos, as to water content of fabrics and boards, effect of heat, and effect of cotton mixture on strength of products.

230. Bayley, William Shirley, and others. Description of the Raritan quadrangle, by W. S. Bayley, H. B. Kümmel, and R. D. Salisbury. Washington, 1914. 32 p. maps. f°. (United States. — Geological Survey. Geologic atlas of the United States. no. 191, Raritan folio.) ††† PTB
See p. 30 for brief reference to asbestos in this area.

231. Beach, B. S. Asbestos in electrical products. (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 29–30.) VHA

232. Beck, Lewis Caleb. Mineralogy of New York, comprising detailed descriptions of the minerals found in the state of New York, and notices of their uses in the arts and agriculture. Albany, 1842. xxiv, 536 p. illus. 4°. (Natural history of New York. part 3.) PTB (New York)
See p. 58, 287, 298–299, 301, 313.

233. Becker & Haag, Berlin. Asbest, seine Fundstellen, Gewinnung, Aufbereitung, Verarbeitung und Anwendung in Industrie und Technik. Berlin: Becker & Haag, 1927. 98 p. map, chart. illus. 8°. VHT
Has numerous photographs of workings in Canada, Rhodesia, Russia, Cyprus, and the Transvaal. Reviewed in *South African mining and engineering journal*, Johannesburg, 1929, v. 39, part 2.

234. Die Bedeutung der Asbestfabrikate für die Herstellung feuersicherer Bauten und für das Feuerlöschwesen. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 211–212, 224–225.) †† VMA
Report of test on fire-proof structure in Hamburg, with comments, especially on use in theatres.

235. Beeler, Henry C. Asbestos in Wyoming. illus. (Engineering and mining journal, New York, 1910, v. 90, p. 955.) VHA

236. —— Wyoming. (Engineering and mining journal, New York, 1909, v. 87, p. 111–112.) VHA
Occurrence at Casper mountain. Author is State Geologist of Wyoming.

237. Bell, Robert. The mineral resources of the Hudson's Bay territories. (American Institute of Mining Engineers, Transactions, New York, 1886, v. 14, p. 690–698.) **VHA**

Brief statement of occurrences, p. 696–697.

238. Bellen, E. van der. Der Asbest. (Gummi-Zeitung, Dresden, 1901, Jahrg. 15, p. 771–772, 789, 805–807, 821–823, 840–841, 854–855, 871.) †† **VMA**

Excellent article on chemistry of asbestos with numerous analyses.

239. —— Beiträge zur Kenntniss des Asbestos. illus. (Chemiker-Zeitung, Cöthen, 1900, Jahrg. 24, Heft 1, p. 392–393.) **VOA**

Abstracted in *Journal of the Chemical Society,* London, 1900, v. 78, part 2, p. 602–603, *PKA; Journal of the Society of Chemical Industry,* London, 1900, v. 19, p. 537, *VOA.*

Also in *Gummi-Zeitung,* Dresden, 1900, Jahrg. 15, p. 37–39, †† *VMA.*

Methods of analysis and determination of melting points; also results of analyses of samples from Scotland, Silesia, Mexico, Canada, Italy, Zoeblitz in Germany, and Sala in Norway.

240. —— Prüfung, Herstellung und Verwendung von Asbestpappen. (Gummi-Zeitung, Dresden, 1901, Jahrg. 15, p. 614–615.) †† **VMA**

241. —— Ueber die Bildung von Asbest auf mechanischem Wege. (Chemiker-Zeitung, Cöthen, 1900, Jahrg. 24, Semester 1, p. 284–285.) †† **VOA**

Also in *Gummi-Zeitung,* Dresden, 1900, Jahrg. 14, p. 518–519, †† *VMA.*

242. Benjamin Franklin's asbestos purse. (Asbestos, Philadelphia, 1923, v. 4, no. 8, p. 34.) **VHA**

243. Bergman, Torbern Orlof. Essays, physical and chemical, translated from the original Latin. To which are added notes and illustrations by the translator. Edinburgh, 1791. xvi, 446 p. 12°. **PKH**

See p. 181–204 for chapter on asbestine earth. Tests and analyses of several European specimens.

244. —— Manuel du minéralogiste; ou, Sciagraphie du règne minéral, distribuée d'après l'analyse chimique... Traduite et augmentée de notes par M. Mongez, le jeune. Nouvelle édition, considérablement augmentée par J. C. Delamétherie. Paris: Cuchet, 1792. 2 v. 8°. **PWD**

Distinguishes between amianthus and asbestos.

245. Bergmann, Josef. Die Asbestspinnerei. illus. (In his: Handbuch der Spinnerei, Berlin, 1927, p. 952–954.) **VLD**

Has drawing of spinning machine.

246. Berlinraut, Leo. Die Asbestgewinnung in der USSR. (Aus der Volkswirtschaft der Union der Sozialistischen Sowjet-Republiken, Berlin, 1925, Jahrg. 4, Nr. 2, p. 77–93.) **TAA**

History, statistics, and occurrences in Russia.

247. —— Russian asbestos mining reviving. This industry, hit hard by the war, now shows gradual improvement. Exports on the increase. Hamburg the distributing point. illus. (Engineering and mining journal-press, New York, 1926, v. 121, p. 164–167.) **VHA**

Good description of various deposits, with table showing Ural production 1904–1921.

248. Bernoulli, Christoph. Geognostische Übersicht der Schweiz, nebst einem systematischen Verzeichnisse aller in diesem Lande vorkommenden Mineralkörper und deren Fundörter. Basel: Schweighauser, 1911. xii, 228 p., 1 pl. 12°. **VHE (Zipser)**

See p. 179–183 for brief references to asbestos, byssolith, and tremolite.

249. Berthold Marcuse, another asbestos pioneer. (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 18.) **VHA**

Obituary notice.

250. Berwerth, Fritz. Ueber die chemische Zusammensetzung der Amphibole. (Kaiserliche Akademie der Wissenschaften, Sitzungsberichte, Mathematisch-naturwissenschaftliche Klasse, Wien, 1882, Bd. 85, Abt. 1, p. 153–187.) * **EF**

251. Bezon, Jean. Dictionnaire général des tissus anciens et modernes... Lyon: Th. Lépagnez, 1856–63. 8 v. 8°. **VL**

Deals with a Chinese furnace as reported by B. G. Sage; also the experiments of Madame Perpenti.

252. A **Big** asbestos deal. (South African mining and engineering journal, Johannesburg, 1927, v. 38, part 1, p. 159.) †† **VHA**

Group of 24 mines acquired by the Dominions Blue Asbestos Mines, Ltd., of South Africa.

253. Bigler, O. A. The asbestos built up roof. illus. (Asbestos, Philadelphia, 1921, v. 2, no. 10, p. 5, 6, 8.) **VHA**

254. Binder, O. Silberasbest, Bleichromat- und Bleihyperoxydasbest. (Chemiker-Zeitung, Cöthen, 1918, Jahrg. 42, p. 522.) † **VOA**

The use of silver-asbestos is recommended in place of silver foil for the removal of chlorine in combustion analyses. Abstract in *Journal of the Society of Chemical Industry,* London, 1918, v. 37, p. 784a, *VOA; Journal of the Chemical Society,* London, 1918, v. 114, part 2, p. 453.

255. Bindheim. Chemische Untersuchungen einiger Steinarten. (Gesellschaft naturforschende Freunde, Schriften, Berlin, 1782, Bd. 3, p. 423–433.) 3 – * **EE**

For methods of asbestos analysis see p. 423–426.

256. Bischof, Gustav. Lehrbuch der chemischen und physikalischen Geologie. Bonn, 1863–66. 3 v. 2. ed. 8°. **PTK**

See Bd. 2, p. 627–631 for discussion of augite-asbestos transformation with 12 analyses and a bibliography.

257. Black Lake Asbestos and Chrome Company. [Abstract of semi-annual report.] (Canadian mining journal, Gardenvale, 1921, v. 42, p. 732.) **VP**

258. [Black Lake asbestos mines.] (Engineering and mining journal, New York, 1890, v. 50, p. 634, 660.) **VIA**

Brief account of mining and grading.

259. Black Lake Consolidated Asbestos Company. (Engineering and mining journal, New York, 1909, v. 88, p. 188, 467.) **VHA**

Personnel, capitalization, and subsidiary companies.

260. Blair, Patrick. An account of the asbestos, or lapis amiantus, found in the highlands of Scotland. (Philosophical transactions, London, 1712, v. 27, p. 434–436.) *** EC**

261. Blatchford, Torrington. Asbestos deposits at Soanesville. illus. (In: Western Australia. — Geological Survey. Bulletin no. 52. Perth, 1913. 8°. p. 30–54.) **PTB**

262. Blue asbestos. (Chemical trade journal and chemical engineer, London, 1917, v. 60, p. 137.) **VOA**

263. Blue asbestos. (Engineer, London, 1917, v. 123, p. 524–525.) **VA**

264. Blue asbestos. (South African mining and engineering journal, Johannesburg, 1926, v. 37, part 1, p. 723.) **†† VHA**

Editorial plea for cooperation among producers.

265. The **Blue** asbestos boom. (India rubber journal, London, 1926, v. 72, p. 449.) **† VMV**

Refers to a movement to improve the industry in South Africa. States that large areas have been "pegged" in Bechuanaland and the Transvaal.

266. Blue asbestos in the chemical industry. (Asbestos, Philadelphia, 1924, v. 5, no. 11, p. 19, 21–22.) **VHA**

267. Blue asbestos for steam boilers and pipes. Its outstanding value as an insulating material. (South African journal of industries, Pretoria, 1925, v. 8, p. 641–642.) **TLA**

Abstracted in *Engineering and mining journal-press,* New York, 1925, v. 120, p. 926, *VHA.*

268. Blum, Johann Reinhard. Die Pseudomorphosen des Mineralreichs. Stuttgart, 1843. x, 378 p. 12°. **PWF**

See p. 163–166, Augite-asbestos transformation.

269. Blum, Th. Der Asbestbergbau im Gasteiner Tale. (Gummi-Zeitung, Berlin, 1922, Jahrg. 36, p. 69–70.) **†† VMA**

Describes occurrence in detail.

270. Blumenthal, F. H. Asbestos situation in the first half of 1928. (United States. — Bureau of Foreign and Domestic Commerce, Commerce reports, Washington, Sept. 24, 1928, p. 788–789.) **TLG (U. S.)**

U. S. imports and exports. Expansion of Rhodesian industry expected to follow the new railway. Russian conditions.

271. Boalich, E. S. Latent possibilities among California mineral resources. (Mining and scientific press, San Francisco, 1915, v. 110, p. 218–219.) **VA**

Brief statement of occurrences.

272. Bobaricoff, J., and W. **Mramornoff.** The tensile strength of asbestos rope when exposed to fire. diagrs. (Engineering, London, 1916, v. 102, p. 451–452.) **† VDA**

Experiments at the Tomsk Institute of Technology. Also in *India rubber journal,* London, 1916, v. 52, p. 785–787, † *VMV.*

273. Bodmer-Beder, A. Der Malencoserpentin und seine Asbeste auf Alp Quadrato bei Poschiavo, Graubünden. (Centralblatt für Mineralogie, Stuttgart, 1902, Jahrg. 1902, p. 488–492.) **PWA**

274. Boetius de Boot, Anselmus. Gemmarum et lapidum historia... Postea Adrianus Tollius recensuit. Lugduni Batavorum: Joannis Maire, 1647. 4 p.l., 576 p., 10 l., 1 pl., 32 l., 210 p., 3 l. illus. 3. ed. 8°. **PWV**

See p. 382 for uses, sources, and perpetual lamps. Good illustration.

275. Bombay suburban electrification. Motor cars are effectively fire-proofed and are designed to run through water two feet deep. illus. (Railway age, New York, 1925, v. 78, p. 836–838.) **TPB**

Use of asbestos for rolling stock, which portion of the article is quoted in *Asbestos,* Philadelphia, 1925, v. 6, no. 10, p. 12, *VHA.*

276. Booker, Ernest. The Quebec asbestos industry. illus. (Canadian mining journal, Gardenvale, 1923, v. 44, p. 510–511, 546–548, 693–694.) **VHA**

Extensive article treating of efficiency in milling. For comment by Samuel Davis see *Canadian mining journal,* 1923, v. 44, p. 702–703.

277. A **Boom** in asbestos. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 565.) **†† VHA**

Demand for raw materials and shares.

278. Borchert, G. Die Asbest-Industrie des Urals. (Gummi-Zeitung, Berlin, 1920, Jahrg. 35, p. 100–101.) **†† VMA**

Effects of the war. Abstract in *Journal of the Society of Chemical Industry,* London, 1921, v. 40, p. 14r, *VOA.*

279. Born, Ignaz, Edler von. Catalogue méthodique et raisonné de la collection des fossiles de M^lle^. Éléonore de Raab. Vienne, 1790. 2 v. illus. 12°. **PX**

Descriptions of specimens from various sources.

280. Borntraeger, Hugo. Ueber ein Surrogat für Asbest. (Gummi-Zeitung, Dresden, 1900, Jahrg. 15, p. 5–6.) **†† VMA**

Asbestos substitute using magnesium salt and waterglass.

281. Bowles, Oliver. Asbestos. (In: J. E. Spurr, Political and commercial geology. New York, 1920. 8°. chapter 24, p. 388–401.) **PTK**

Uses, substitutes, geographical distribution, geological distribution, developments and changes in distribution of mines, political and commercial control, position of leading commercial nations.

282. —— Asbestos. (In: United States. — Mines Bureau. Monthly reports of investigations. 1919–1920, unpaged. Washington, 1919–20.) **VHCA (U. S.)**

November, 1919: The history of asbestos paper. "Amosite," a new type of asbestos. Chrysotile asbestos in Virginia. Mountain leather in China.

The article on "Amosite" is also in *Engineering and mining journal*, 1920, v. 109, p. 264. *VHA*. For the history of asbestos paper see also *Chemical and metallurgical engineering*, 1920, v. 22, p. 208–209.

February, 1920: Asbestos in Apache county, Arizona. Asbestos in China. Asbestos pipe and wall tile.

The article on "Asbestos in Arizona" is also in *Engineering and mining journal*, 1920, v. 109, p. 767, *VHA*.

March, 1920: Blue asbestos.

Also in *Engineering and mining journal*, 1920, v. 109, p. 1311, *VHA*.

283. —— Asbestos in Apache county, Arizona. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 10.) **VHA**

284. —— The asbestos industry in 1919. (Engineering and mining journal, New York, 1920, v. 109, p. 224–225.) **VHA**

285. —— Asbestos in the Philippine Islands. (Asbestos, Philadelphia, 1920, v. 1, no. 7, p. 31.) **VHA**

Long fibered amphibole with pockets of chrysotile.

286. —— Asbestos pipes and wall tile. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 24.) **VHA**

287. —— Asbestos in South Africa. 2 p. (United States. — Mines Bureau, Reports of investigations. Washington, 1920. no. 2179.) **VHCA**

Deals principally with occurrence and production in Rhodesia.

288. —— Mountain leather in China. (Asbestos, Philadelphia, 1920, v. 1, no. 8, p. 28.)

Brief notice of sample from Yunnan. **VHA**

289. —— A new type of asbestos in South Africa. (Asbestos, Philadelphia, 1920, v. 1, Feb., p. 27–28, March, p. 40–42.) **VHA**

Analysis and description of amosite, which occurs along the Elifants river.

290. —— Production of asbestos in South Africa. (Cement, mill and quarry, Chicago, 1920, v. 17, Nov. 20, p. 20.) **VEO**

291. Brard, Cyprien Prosper. Minéralogie appliquee aux arts. Paris, 1821. 3 v. 8°. **PWH**

See v. 3, p. 381–385 for discussion of textile qualities of asbestos.

292. Brauns, Reinhard Anton. The mineral kingdom. Translated, with additions, by L. J. Spencer. Philadelphia: J. B. Lippincott Company, 1912. 4 p.l., 432 p., 91 l., 92 pl. illus. 4°. **PWD**

See p. 321 and 323 and plate 60 for amphibole asbestos and crocidolite.

293. Brindre, Ruth. Elwood J. Wilson. port. (Asbestos, Philadelphia, 1925, v. 6, no. ., p. 10–12.) **VHA**

Brief biography and portrait of prominent worker in the Canadian field.

294. —— Greene, Tweed Company. (Asbestos, Philadelphia, 1925, v. 6, no. 8, p. 5, 7, 9.) **VHA**

Brief account of prominent makers of asbestos packing.

295. Brisson, Mathurin Jacques. Pesanteur spécifique des corps. Ouvrage utile à l'histoire naturelle, à la physique, aux arts at au commerce. Paris: Imprimerie Royale, 1787. xxiv, 453, xx p., 2 pl. 4°. **VBDG**

See p. 154–157 for brief descriptions and specific gravities of several varieties of amianthus and asbestos.

296. Brochant de Villiers, André Jean Marie. Traité élémentaire de minéralogie suivant les principes du professeur Werner... Paris, 1808. 2 v. 2 ed. 8°. **PWD**

See v. 1, p. 492–501 for bibliographical notes, characteristics, and occurrence of various types of asbestos.

297. Broegger, W. C., and H. H. Reusch. Vorkommen des Apatit in Norwegen. illus. (Deutsche geologische Gesellschaft, Zeitschrift. Berlin. 1875. Bd. 27, p. 646–702.) **PTA**

See p. 652 and 681 for brief description of steatite-asbestos at Kragerö.

298. Bromberg, A. J. The gasket and its proper use. illus. (Asbestos, Philadelphia, 1920, v. 1, no. 10, p. 5–7.) **VHA**

299. Brough, Bennett H. On griqualandite. (Chemical news, London, 1887, v. 56, p. 244.) **PKA**

"It is not a pseudomorph after crocidolite, but rather a fibrous hornblende or uralite resulting from the alteration of that mineral." Author amends Hepburn's analysis (see entry no. 548).

300. Brown, John Coggin. ...Notes on asbestos... Calcutta: Superintendent Gov. Prtg., 1922. v, 31 p. tables. 4°. (India. — Industries Department. Bulletins of Indian industries and labour. no. 20.) **TAA (India)**

Varieties and properties; distribution in India; uses; opinions of manufacturers on Mysore asbestos; field tests.

301. Bryant, E. G. Amosite, its discovery and early history. illus. (Asbestos, Philadelphia, 1928, v. 10, no. 4, p. 3–4, 6, 8.) **VHA**

302. —— Chemical analysis of asbestos. (Asbestos, Philadelphia, 1928, v. 9, no. 10, p. 10, 13–14.) **VHA**

303. Buerner, R. Das letzte Jahrzehnt der deutschen Asbest-Industrie in statistischen Skizzen. diagrs. (Gummi-Zeitung, Dresden, 1899, Jahrg. 13, p. 411–412.) †† **VMA**

Has three statistical charts showing progress 1889–1898.

304. Buffon, Georges Louis Leclerc, comte de. Histoire naturelle des minéraux. Paris, 1783–88. 5 v. 4°. **PQD**

v. 3, p. 78–81, Amiante et asbeste; p. 92–96, Cuir et liege de montagne.

305. Bureau of Mines issues three new cinematograph stories. Asbestos and sulphur traced graphically from vein to consumer's

hand. (Engineering and mining journal, New York, 1921, v. 111, p. 275.) **VHA**

306. Butler, A. T. Casper mountain asbestos. (Engineering and mining journal, New York, 1892, v. 53, p. 661.) **VHA**

Description of Wyoming deposit.

307. Campbell, John Lyle. Geology and mineral resources of the James River valley, Virginia, U. S. A. New York: G. P. Putnam's Sons, 1882. 119 p. illus. 8°. **PVC**

See p. 116. See also *The Virginias,* Staunton, Va., 1882, v. 3, p. 160, *VHA.*

308. Camsell, Charles. Geology, and mineral deposits of the Tulameen district, B. C. Ottawa: Gov. Prtg. Bureau, 1913. vii, 188, 10 p., 23 pl. 8°. (Canada. — Geological Survey Branch. Memoir no. 26.) **PTB (Canada)**

See p. 171–172.

309. Canada. — Geological Survey. Descriptive catalogue of a collection of the economic minerals of Canada, by the Geological Corps, Alfred R. C. Selwyn, Director. London: Printed by Alabaster, Passmore & Sons, 1886. xvi, 17–172 p. illus. 8°. **VHCB**

See p. 154–156.
At head of title: Colonial and Indian Exhibition, London, 1886.

310. Canadian asbestos, 1927. port. (Canadian mining journal, Gardenvale, Que., 1928, v. 49, p. 699.) † **VHA**

Statistics. Portrait of Mr. John A. Dresser.

311. The Canadian asbestos merger. (Engineering and mining journal-press, New York, 1925, v. 119, p. 955.) **VHA**

Editorial comment.

312. The Canadian asbestos merger. (India rubber journal, London, 1926, v. 71, p. 54.) † **VMV**

313. Canadian asbestos merger to be considered at stockholders' meeting, Dec. 18. (Engineering and mining journal-press, New York, 1925, v. 120, p. 907.) **VHA**

314. The Canadian asbestos pits. (Asbestos, Philadelphia, 1923, v. 5, no. 3, p. 5–6.) **VHA**

A tourist's impressions of the mine of Consolidated Asbestos, Ltd.

315. Canadian asbestos and the Sherman act. (Engineering and mining journal, New York, 1928, v. 125, p. 1001–1002.) † **VHA**

Editorial comment.

316. Canadian asbestos and United States legislation. (Canadian mining journal, Gardenvale, Que., 1928, v. 49, p. 265–266.) † **VHA**

317. The Canadian government and asbestos. (India rubber journal, London, 1922, v. 63, p. 224.) † **VMV**

Proposed embargo on export of raw asbestos.

318. The Cape asbestos industry. (India rubber journal, London, 1917, v. 53, Jan. 6, p. 7–10.) **VMV**

319. Casamajor, P. Note on asbestos filters. (Chemical news, London, 1883, v. 47, p. 17–18.) **PKA**

Abstract in *Journal of the Chemical Society,* v. 44, Abstracts, p. 506–507, *PKA.*

320. Casper, R. M. Improved field coil insulation for large salient-pole machines. illus. (Electric journal, Pittsburgh, 1925, v. 22, p. 24–25.) **VGA**

Uses asbestos cloth and asbestos paper. Abridged in *Asbestos,* Philadelphia, 1925, v. 6, no. 9, p. 24, 26, *VHA.*

321. Charles, H. C. Asbestos plays important part in stack repair. illus. (Asbestos, Philadelphia, 1927, v. 8, no. 10, April, p. 10–11.) **VHA**

322. —— Asbestos as a seal. illus. (Asbestos, Philadelphia, 1928, v. 10, no. 4, p. 12–14.) **VHA**

To prevent loss of heat and filtration of smoke in special designs.

323. —— Asbestos shield for industrial furnaces. illus. (Asbestos, Philadelphia, 1927, v. 8, no. 7, Jan., p. 32, 34.) **VHA**

324. —— The expansion joint and asbestos. illus. (Asbestos, Philadelphia, 1928, v. 9, no. 10, p. 3–4, 6.) **VHA**

Explains use of asbestos fire-felt.

325. Charles Francis Sloane. (Asbestos, Philadelphia, 1920, v. 1, no. 11, p. 15.) **VHA**

Obituary notice. Mr. Sloane was prominent in the Arizona field.

326. Chemisch reine Asbestplatten. (Gummi-Zeitung, Berlin, 1920, Jahrg. 34, p. 533, 640, 1124; 1921, Jahrg. 35, p. 470–471, 742–743, 1054; 1922–23, Jahrg. 37, p. 175, 213–214, 239.) †† **VMA**

Discusses meaning of "97–98 per cent" asbestos articles. Titles of articles vary.

327. Chenevix, Richard. Analyse de quelques pierres magnésiennes. (Annales de chimie, Paris, 1798, tome 28, p. 189–204.) **PAA**

Tremolite, p. 195–198; asbestos, p. 201–202.

328. Chester, Albert H. On a fibrous variety of sepiolite from Utah. (American journal of science, New Haven, 1877, series 3, v. 13, p. 296–297.) **OA**

329. —— Some misconceptions concerning asbestos. (Engineering and mining journal, New York, 1893, v. 55, p. 268, 531–532.) †† **VHA**

Two replies to articles by J. T. Donald. See entry no. 402.

330. Chester, Albert H., and F. I. Cairns. Crocidolite from Cumberland, R. I., with a discussion of this and allied minerals, and a method for the determination of ferrous oxide in insoluble silicates. (American journal of science, New Haven, Conn., 1887, series 3, v. 34, p. 108–116.) **OA**

Compare their analyses with those made on similar mineral from South Africa. Claim that Heddle's abriachanite is a magnesian variety of crocidolite.

331. A **Chinese** asbestos factory. illus. (Asbestos, Rochdale, 1920, v. 3, p. 143.) **VLA**

Description and picture of asbestos pillow mentioned in Lady Hosie's article (see entry no. 564).

332. The **Chinese** asbestos trade. (India rubber journal, London, 1927, v. 73, p. 390.) **† VMV**

List of producing companies with some price quotations for finished products.

333. Christopher Huber. port. (Asbestos, Philadelphia, 1921, v. 3, no. 5, p. 22–23, 25.) **VHA**

Mr. Huber is president of the Asbestos Fibre Spinning Co.

334. Chrysotile, crocidolite, and amosite. (Engineering and mining journal, New York, 1920, v. 110, p. 911.) **VHA**

Distinguishes these varieties.

335. Ciampini, John. An abstract of a letter, wrote some time since, by Signior John Ciampini of Rome, to Father Bernard Joseph a Jesu Maria, &c., concerning the asbestus, and manner of spinning and making an incombustible cloath thereof. illus. (Royal Society of London, Philosophical transactions, London, 1701, no. 273, p. 911–913.) *** EC**

Interesting details of apparatus are illustrated in frontispiece.

336. Cirkel, Fritz. Asbestos; its occurrence, exploitation and uses. Ottawa, 1905. xiv, 169 p., 5 charts, 2 maps, 19 pl. 8°. (Canada. — Mines Department. [Mines Branch publication 11.]) **VHCA (Canada)**

Abstracted in *Engineering and mining journal,* New York, 1905, v. 80, p. 924–925, *VHA.*

German translation in *Gummi-Zeitung,* 1906, Jahrg. 20, p. 709–711, 762–764, 793–794, 817–818, 847–849, 872–874, †† *VMA.*

337. —— Asbestos and graphite. (Stone, New York, 1907, v. 28, p. 161–164.) **VEA**

338. —— Asbestos in Quebec. (Engineering and mining journal, New York, 1908, v. 86, p. 461.) **VHA**

Brief references to current activities.

339. —— Chrysotile-asbestos; its occurrence, exploitation, milling and uses. Ottawa: Govt. Prtg. Bureau, 1910. 316 p., 2 diagrs., 1 map, 65 pl. illus. 8°. (Canada. — Mines Department. [Mines Branch publication] 69.) **PWK**

Abstracted in *India rubber journal,* London, 1911, v. 42, p. 534–535, 629–630, 632, † *VMV.*

340. —— Depth of asbestos deposits. illus. (Canadian mining journal, Toronto, 1909, v. 30, p. 132–135.) **VHA**

341. —— The quarries of the Canadian asbestos district. Canada supplies most of the world's market; Asbestos occurs only in serpentine; Productive area restricted but large supply ahead. illus. (Engineering and mining journal, New York, 1910, v. 89, p. 918–920.) **VHA**

342. —— Vorkommen und Gewinnung von Asbest in Canada. diagrs., map. (Zeitschrift für praktische Geologie, Berlin, 1903, Jahrg. 11, p. 123–131.) **PTA**

Abstracted in *Engineering and mining journal,* New York, 1903, v. 76, p. 509, *VHA.*

343. Clark, George L. The X-ray identification and specification of asbestos. illus. (Asbestos, Philadelphia, 1928, v. 10, no. 2, p. 2–4, 6, 8, 10, 13–14.) **VHA**

344. Clayton, E. G. Note on asbestos. (Chemical Society, Proceedings, London, 1901, v. 17, p. 203.) **PKA**

Analyses of four amphibole samples, one of them of English origin. Also in *Gummi-Zeitung,* Dresden, 1902, Jahrg. 16, p. 355, †† *VMA.*

345. Cleaveland, Parker. An elementary treatise on mineralogy and geology designed for the use of pupils, for persons attending lectures on these subjects, and as a companion for travellers in the United States of America. Boston, 1822. 2 v. in 1. illus. 8°. **PWD**

See p. 404–409 for occurrences, especially in the United States.

346. Cohen, E. [Letter from Griqualand to G. Leonard.] (Neues Jahrbuch für Mineralogie, Stuttgart, 1873, p. 52–56.) **PWA**

Refers to the asbestos mountain of South Africa and discusses crocidolite and fibrous-quartz.

347. A **Collection** of trade catalogues covering asbestos products. **VHT n.c.1–4**

v. 1: Asbestos Fibre Spinning Co., Canadian Asbestos Co., Ferodo and Asbestos, Inc., General Asbestos and Rubber Co., H. F. Watson Co., Mohawk Asbestos Slate Co., Norristown Magnesia and Asbestos Co., Philip Carey Co., Russell Manufacturing Co. 12°.

v. 2: C. W. Trainer Mfg. Co., Canadian Asbestos Co., H. W. Johns-Manville Co., Philip Carey Co., United States Asbestos Co., Sall Mountain Co. 8°.

v. 3: Asbestos Shingle, Slate and Sheathing Co., Dominion Asbestos and Rubber Corporation, Gillen-Chambers Co., The Mikesell Company, Powhatan Mining Corporation. 8°.

v. 4: Asbestos Shingle, Slate and Sheathing Co., Ehret Magnesia Manufacturing Co., General Asbestos and Rubber Company, Keasby and Mattison Company, Multibestos Company, The Philip Carey Company, Rhodesian and General Asbestos Corporation, Ltd. 4°.

348. Colonel J. J. Penhale. (Asbestos, Philadelphia, 1926, v. 8, Sept., p. 3–4.) **VHA**

Obituary notice.

349. Comstock, John Lee. An introduction to mineralogy; adapted to the use of schools. New York: Pratt, Woodford, Farmer, and Brace, 1854. 369 p. illus. 20. ed. 12°. **PWE**

See p. 164–166. Gives occurrences, especially in the United States.

350. Conder, Hartwell. Asbestos mining in Australia. illus. (Chemical engineering mining review, Melbourne, 1920, v. 13, p. 7–10.) **VHA**

Occurrences and milling process described. Also in *Canadian mining journal,* Gardenvale, 1920, v. 41, p. 979–981, *VHA.*

351. The Conference of asbestos packing manufacturers. (Asbestos, Philadelphia, 1921, v. 3, no. 4, p. 24, 26, 28.) **VHA**

Conference at Navy Department, Sept. 13, 1921. List of those present and a brief statement of discussions.

352. Conquist. Das Ganze der Asbest-Verarbeitung. [Von Conquist.] Berlin: Union deutsche Verlagsgesellschaft [1913]. 66 p. 12°. **VLR**

353. Construction of boiler settings in Devon station. illus. (Power, New York, May 13, 1924, v. 59, p. 763–765.) **VFA**

Describes the use of asbestos for expansion joints. Abstracted in *Asbestos*, 1924, v. 6, no. 2, p. 30–31, *VHA*.

354. Cook, George H. Packings and "Ite" jointings. port. (India rubber journal, London, 1924, v. 68, p. 143–144.) **VMV**

355. Coplans, M., and W. G. Lloyd. On the action of asbestos on certain physiological substances. (British medical journal, London, Nov. 22, 1913, no. 2760, p. 1375–1377.) †† **WAA**

Investigation of filtering qualities of asbestos. Abstract in *Journal of the Society of Chemical Industry*, London, 1913, v. 32, p. 1171, *VOA*.

356. Corcoran, Alfred B. Asbestos used in the printing industry. (Asbestos, Philadelphia, 1926, v. 8, no. 6, Dec., p. 32, 34.) **VHA**

357. Cornel, H. Asbest und Asbestfarben. (Farbe und Lack, Hannover, 1926, p. 196–197.) † **VOA**

Deals with fire resistance of asbestos and has some recipes for paints. Part of this article is translated in *Asbestos*, Philadelphia, 1926, v. 8, no. 2, p. 9, 11, 13, 16, *VHA*.

358. Corsican asbestos. (India rubber journal, London, 1911, v. 42, p. 146.) † **VMV**

Long but brittle variety discovered on northeastern side of the island.

359. Covel, Calvin. Asbestos guards. (Asbestos, Philadelphia, 1925, v. 6, no. 11, p. 24.) **VHA**

Sheet asbestos for fire protection.

360. Crawford, Andrew W. Asbestos as a building material protection. illus. (Asbestos, Philadelphia, 1922, v. 4, no. 5, p. 10–12, 14, 16, 18, 20.) **VHA**

Describes uses and manufacture of asbestos protected metal made by the H. H. Robertson Company.

361. Cronstedt, Axel Fredrik. Cronstedts Versuch einer Mineralogie. Vermehret durch Brünnich. Copenhagen und Leipzig: C. G. Proft, und Rothens Erben, 1770. 20 p.l., 296 p. 16°. **PWE**

See p. 120–124 for classification, occurrence, and uses.

362. Crook, Thomas. Economic mineralogy; a practical guide to the study of useful minerals. London: Longmans, Green & Co., 1921. xi, 492 p. illus. 8°. **PWD**

Excellent brief descriptions of chrysotile, tremolite, anthophyllite, crocidolite, and amosite.

363. Crudes vs. fibres. (Asbestos, Philadelphia, 1921, v. 3, no. 1, p. 43.) **VHA**

Explains the difference.

364. Currens, Warren W. Asbestos. Examples of its early use. Derivation of the mineral. Different varieties and their values. (Mines and minerals, Scranton, Penn., 1912–13, v. 33, p. 229–230.) **VHA**

365. Dana, Edward Salisbury. A text-book of mineralogy, with an extended treatise on crystallography and physical mineralogy. 3. ed., revised and enlarged by William E. Ford. New York: John Wiley and Sons, Inc., 1922. ix, 720 p. illus. 8°. **PWE**

Library has issues of 1877, 1880, 1883, 1886, and 1908.

365a. Dana, James Dwight. The system of mineralogy of James Dwight Dana, 1837–1868. Descriptive mineralogy. 6th ed...by Edward Salisbury Dana... Entirely rewritten and much enlarged... With appendices I and II, completing the work to 1909. New York: John Wiley and Sons, Inc., 1914. lxiii, 1134, xi, 75, x, 114 p. illus. 4°. **PWD**

Occurrences, analyses, and bibliographical references to the asbestiform minerals.

366. Darling, Charles R. Some modern uses of asbestos. (India rubber journal, London, 1916, v. 52, p. 633–634, 637.) † **VMV**

Good article on heat insulation, joints, building materials, and miscellaneous uses.

367. Davis, J. W. Shot drilling around Thetford mines. illus. (Canadian mining journal, Toronto, 1919, v. 40, p. 36–38.) **VHA**

Describes use of Calyx drill.

368. Davis, Leslie A. Foreign field notes. (Asbestos, Philadelphia, 1923, v. 4, no. 8, p. 24, 27–28.) **VHA**

Report of operations in Russia and Finland.

369. Delesse, Achille Ernest Oscar Joseph. [Le liége de montagne.] (Annales des mines, Paris, 1853, série 5, tome 3, p. 730–731.) 3 – **VHA**

A. Erdmann's analysis of Swedish sample.

370. —— Recherches sur la minette. (Académie des sciences, Comptes rendus, Paris, 1857, tome 44, p. 766–769.) * **EO**

Analysis of crocidolite from Vosges mountains.

371. Denis, Théophile C. L'industrie de l'amiante de la province de Québec, Canada. Publié par autorité de l'Honorable Honoré Mercier, ministre de la colonisation, des mines et des pêcheries. Québec, 1917. 28 p. diagrs., map, plates. 8°. **PTI p.v.41, no.5**

372. Dennison, E. Haldeman. Quebec's asbestos shipments for Germany. (Asbestos, Philadelphia, 1923, v. 5, no. 4, p. 30, 33.) **VHA**

373. The **Density** of crocidolite deposits. (Asbestos, Philadelphia, 1924, v. 6, no. 5, p. 25, 26.) **VHA**

States that low density of South African product involves high mining and transportation charges.

374. Des Cloizeaux, Alfred Louis Olivier Legrande. Manuel de minéralogie. Tome 1. Paris: Dunod, 1862. illus. 8°. **PWD**

See p. 77–92 for descriptions and analyses of minerals of the amphibole group.

375. Development of the air cell idea. illus. (Asbestos, Philadelphia, 1928, v. 9, no. 12, p. 3–4, 6, 8, 10.) **VHA**

376. Development in Arizona. (Asbestos, Philadelphia, 1920, v. 1, no. 12, p. 25–26.) **VHA**

377. The **Development** of the asbestos industry. illus. (India rubber journal, London, 1924, v. 68, p. 269–272.) **VMV**

Excellent history of early manufactures. Portraits of John Bell and of Sir James Allport. Abstracted in *Asbestos*, Philadelphia, 1924, v. 6, no. 3, p. 28, 30–32, *VHA*.

378. Dewey, Chester. A sketch of the geology and mineralogy of the western part of Massachusetts, and a small part of the adjoining states. (American journal of science and arts, New Haven, 1824, v. 8, p. 1–60.) **OA**

For occurrence of tremolite and asbestos see p. 46–47.

379. Didier, P. Sur l'attaque des silicates par le gaz sulfhydrique. (Académie des sciences, Comptes rendus, Paris, 1899, tome 128, p. 1286–1288.) ***EC**

Effect of H_2S.

380. Diehl, Isabel. Asbestophalt — the ideal pavement. illus. (Asbestos, Philadelphia, 1924, v. 6, no. 6, p. 14–15, 17.) **VHA**

Asbestos added to bitumen prevents cracking.

381. —— Idaho asbestos deposits. (Asbestos, Philadelphia, 1924, v. 6, no. 3, p. 40.) **VHA**

Brief description of property fifteen miles east of Kamiah.

382. Difficulties of a great non-metallic mining industry. (Engineering and mining journal-press, New York, 1924, v. 118, p. 602.) **VHA**

Discusses depression of Canadian industry.

383. Difficulties in selling asbestos materials. (Asbestos, Philadelphia, 1924, v. 6, no. 1, p. 32, 35–36.) **VHA**

384. Diller, Joseph Silas. Asbestos. (Mining American, Denver, 1917, v. 74, June 16, p. 5.) **VHA**

Brief accounts of occurrences in the United States.

385. —— Asbestos, what it is and does for us. illus. (Tractor and gas engine review, Madison, 1918, v. 11, April, p. 10–11.) **VFA**

386. —— The types and modes of occurrence of asbestos in the United States. (Canadian Mining Institute, Quarterly bulletin, Montreal, 1911, no. 13, p. 45–58.) **VHA**

Abstract in *Journal of the Society of Chemical Industry*, London, 1912, v. 31, p. 1181, *VOA*.

387. —— The types, modes of occurrence, and important deposits of asbestos in the United States. maps. (In: United States. — Geological Survey. Bulletin 470. Washington, 1911, p. 505–524.) **PTB (U. S.)**

Describes varieties found near Lowell, Vermont; Casper, Wyoming; Grand Canyon of the Colorado in Arizona; Kamiah, Idaho; and Bedford and Rockmount, both in Virginia.

Abstracted in *Engineering and mining journal*, New York, 1912, v. 93, p. 1283, *VHA*.

388. Directions for the study of non-ignitable and self-extinguishing boards and mouldings for electrical purposes. (Report received from the British Electrical and Allied Industries Research Association.) (Institution of Electrical Engineers, Journal, London, 1924, v. 63, Dec., p. 51–59.) **VGA**

389. Discovery of asbestos in New South Wales. (Society of Chemical Industry, Journal, London, May 30, 1891, v. 10, p. 498, 634.) **VOA**

390. The **Distribution** of asbestos. illus. (Asbestos, Philadelphia, 1927, v. 8, no. 7, p. 2–4, 6, 8; no. 8, p. 2–4; no. 9, p. 6–8, 10; no. 11, p. 3–4, 6, 8; no. 12, p. 18, 20, 22; 1927, v. 9, no. 2, p. 16, 18, 20, 22; no. 3, p. 33–34; no. 4, p. 24, 26–27; no. 6, p. 20, 22, 24, 27; 1928, no. 9, p. 3–4, 6, 8, 11, 13–14; no. 12, p. 25–28, 30–32; 1928, v. 10, no. 3, p. 3–4, 6, 8, 10, 12.) **VHA**

Series of articles covering mine transportation; storage or warehousing; packing; buying units; effect of seasons on mining and industry; choice of manufacturing location; trade channels; competition; comparisons of mining methods; milling; and grading.

391. Doelter y Cisterich, Cornelio August. Beziehungen zwischen Schmelzpunkt und chemischer Zusammensetzung der Mineralien. (Mineralogische und petrographische Mitteilungen, Wien, 1903, Neue Folge, Bd. 22, p. 297–321.) **PWA**

For melting points of various asbestiform minerals see p. 311–313.

392. —— Handbuch der Mineralchemie. Unter Mitwirkung von 57 Fachgenossen, herausgegeben mit Unterstützung der K. Akademie der Wissenschaften in Wien, von C. Doelter. Dresden and Leipzig: Theodor Steinkopff, 1912–27. 7 v. 4°. **PNB**

See Bd. 2, Erste Hälfte, p. 349–356, 603–610, 740–748 for analyses and characteristics, with numerous bibliographical references, of asbestos and kindred minerals. Contains Fersmann's classification. The index to analyses is very complete.

393. —— Ueber die chemische Zusammensetzung des Arfvedsonits und verwandter Mineralien. (Zeitschrift für Krystallographie und Mineralogie, Leipzig, 1880, Bd. 4, p. 34–41.) **PWA**

Analysis of crocidolite from Cape of Good Hope.

394. Dolbear, Samuel H. Asbestos. (Engineering and mining journal, New York, 1924, v. 117, p. 94.) **VHA**

Brief resumé of operations and production in Canada during 1923.

395. Doman, W. A. Copper interest revived in London. Rhodesian asbestos not able to meet demand. (Engineering and mining journal, New York, 1926, v. 122, p. 747.) **†VHA**

News concerning operations at the Shabanie mine, Rhodesia.

396. —— [The Rhodesian asbestos fields.] (Engineering and mining journal, New York, 1928, v. 126, p. 190.) † VHA

Brief reference to outputs of Shabanie, Gath's, and Kings mines.

397. **Domeyko,** Ignacio. Mineralojía. Santiago, Chile: Servat i Ca., 1879. xviii, 762 p. illus. 3. ed. 8°. 3 - PWO

See p. 593–594 for brief statement of occurrences in Chile and Peru.

398. **Donald,** J. T. Canadian asbestus: its occurrence and uses. (Popular science monthly, New York, 1890, v. 36, p. 526–531.) * DA

Abstracted in *Engineering and mining journal,* New York, 1890, v. 49, p. 107, *VHA.*

399. —— The chemical composition of asbestos. (Engineering and mining journal, New York, 1891, v. 51, p. 741.) VHA

Abstract in *Journal of the Society of Chemical Industry,* London, 1891, v. 10, p. 762, *VOA.*

400. —— Notes on asbestos and some associated minerals. (Canadian record of science, Montreal, 1890, v. 4, p. 100–104.) PQA

Analyses of samples from Thetford and Lachute, Canada.

Abstract in *Journal of the Chemical Society,* London, 1895, v. 68, part 2, p. 116, *PKA.*

401. —— The present status of the Canadian asbestos industry. (Engineering and mining journal, New York, 1894, v. 58, p. 296.) VHA

Brief statement of operations at the Jeffrey mine and description of the cyclone fiberizing machinery made by W. G. Costigan and Company.

402. —— Some misconceptions concerning asbestos. (Engineering and mining journal, New York, 1893, v. 55, p. 250, 292.) † VHA

States that asbestos is not hornblende, that the Italian and Canadian varieties are identical, that asbestos is affected by heat, and that it is a very poor nonconductor, claiming that the air between the fibres of worked-up materials accounts for the latter characteristic.

For replies to the above see entry under Chester, Albert H. (entry no. 329.)

403. **Dresser,** John Alexander. Asbestos in southern Quebec. (American Institute of Mining Engineers, Transactions, New York, 1915, v. 50, p. 954–963.) VHA

Also in *Canadian mining journal,* 1914, v. 35, p. 600–604, *VHA.*

404. —— On the asbestos deposits of the eastern townships of Quebec. illus. maps. (Economic geology, Lancaster, Penn., 1909, v. 4, p. 130–140.) PTA

405. —— On the distribution of asbestos deposits in the eastern townships of Quebec. illus. (Canadian Mining Institute, Journal, Montreal, 1911, v. 13, p. 414–437.) VHA

With discussion.

Also in *Canadian mining journal,* Toronto, 1910, v. 31, p. 465–470, *VHA.*

406. —— Preliminary report of the serpentine and associated rocks of southern Quebec. Ottawa: Gov. Prtg. Bureau, 1913. viii, 103 p., 3 maps, 11 pl. 8°. (Canada. — Geological Survey Branch. Memoir 22.)

Bibliography, p. 4–5. PTB (Canada)

407. —— Reconnaissance along the National Transcontinental Railway in southern Quebec. Ottawa: Gov. Prtg. Bureau, 1912. vii, 42 p., 1 map, 6 pl. 8°. (Canada. — Geological Survey Branch. Memoir 35.) PTB (Canada)

Brief reference to forest-covered asbestos area in county of Montmagny.

408. **Dubosc,** A. La klingerite. (Le caoutchouc et la gutta-percha, Paris, 1916, v. 13, p. 9070–9071, 9085–9088.) † VMV

Abstract in *Journal of the Society of Chemical Industry,* London, 1917, v. 36, p. 23, *VOA.*

409. **Dudgeon,** W. F. H. A promising Pietersburg property. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 529–530.) †† VHA

Abstracts from report on crocidolite and amosite deposits of the Premier Asbestos Co., Ltd.

410. The **"Dump"** of one of the large mines at Thetford... illus. (Asbestos, Philadelphia, 1921, v. 3, no. 1, p. 4.) VHA

A picture giving an idea of the large amount of waste handled.

411. **Dunk,** A. J. Asbestos fibres. (Chemistry and industry, London, 1927, v. 46, p. 601–602.) VOA

Reply to J. N. Longley (see entry no. 651).

412. **Dunstan,** B. Asbestos in Australia. (Mining magazine, London, 1920, v. 23, p. 375–376.) VHA

413. —— Queensland mineral index and guide. Brisbane: A. J. Cumming, government printer, 1913. x, 1014, 17 p. diagrs., maps, tables. 8°. (Queensland. — Geological Survey. Publication no. 241.) PTB (Queensland)

See p. 96 for references to samples found in different parts of the country.

414. **Durchscheinendes** Asbestpapier. (Gummi-Zeitung, Berlin, 1920, Jahrg. 34, p. 372.) †† VMA

415. **Du Toit,** Alexander Logie. The geology of South Africa. Edinburgh: Oliver and Boyd, 1926. xi, 463 p. illus. map. 8°. PVW

See index under *Asbestos.*

416. **Duty** on asbestos. (Engineering and mining journal, New York, 1901, v. 71, p. 491.) VHA

U. S. court decides that asbestos fiber separated from the rock, but containing some of the rock, is not subject to import duty.

417. **Duty** on corded asbestos fiber. (Engineering and mining journal, New York, 1896, v. 61, p. 114.) VHA

418. [**Duty** on crushed asbestos.] (Engineering and mining journal, New York, Jan. 12, 1889, v. 47, p. 49.) VHA

Included under the classification "Asbestos manufactured" and taxed 25 per cent ad valorem.

419. The **Early** discovery and production of asbestos in the United States. (Asbestos, Philadelphia, 1927, v. 9, no. 3, Sept., p. 8, 10.) **VHA**

420. The **Early** history of pipe covering, as told by veterans in the industry. illus. (Asbestos, Philadelphia, 1922, v. 4, no. 1, p. 5–10, 13–14, 17.) **VHA**

421. The **East Broughton** asbestos district. (Engineering and mining journal, New York, 1918, v. 106, p. 467.) **VHA**

Record of current operations.

422. The **Economics** of asbestos. A material of great importance to South Africa. Qualities of various varieties. Market usage and comparative values. The multifarious uses of the material. The American field for crocidolite and amosite. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 555–557.) †† **VHA**

423. **Efficiency** of flat heat-insulating covers. (National Physical Laboratory, Teddington, England, Report for the year 1912, p. 95–97.) **PAN**

Tests on coverings mostly 2 inches thick. Also in *India rubber journal*, London, 1913, v. 45, p. 1032, † *VMV*.

424. **Egleston,** Thomas. Catalogue of minerals and synonyms. Washington: Gov. Prtg. Off., 1887. 198 p. 8°. (United States National Museum. Bulletin no. 33.) * **EA**

Alphabetically arranged for the use of museums.

425. **Ehrenfest,** Arthur. Neue Verwendungsart des Asbestes als Baumaterial. (Österreichischer Ingenieur- und Architekten-Verein, Zeitschrift, Wien, 1899, Jahrg. 51, p. 189–191.) **VDA**

States the advantages of asbestos mortar. Abstracted in *Gummi-Zeitung*, 1899, Jahrg. 13, p. 364–365, †† *VMA*.

426. **Eitel,** W. Die Mischkristallbildung in der Gruppe der alkali- und tonerdehaltigen Hornblenden, dargestellt in den Vierstoffsystemen SiO_2 — CaO — (Mg, Fe)O — (Al, Fe)$_2O_3$ und RO — SiO_2 — R_2O_3. — R_2O. illus. (Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, Stuttgart, 1922–23, Beilage-Band 47, p. 201–253.) **PWA**

This comprehensive monograph has a large number of analyses and a bibliography of 336 titles.

427. **Ellis,** A. E. Ludford. Heat insulation. (Asbestos, Rochdale, 1918, v. 1, p. 38, 45.) **VLA**

428. **Ells,** Robert Wheelock. Asbestos. (In: Joseph Obalski, Mines and minerals of the province of Quebec. [Quebec,] 1889–90, p. 91–110.) **VHCB**

Describes occurrences and work of various companies.

429. —— Asbestos mining in Quebec. (Engineering and mining journal, New York, 1891, v. 51, p. 498–499.) **VHA**

Good history of operations.

430. —— The mineral resources of the province of Quebec. (Canada. — Geological and Natural History Survey, Annual report, 1888–89, Montreal, 1890, v. 4, p. 1k–159k.) **PTB (Canada)**

Good account of occurrence and operations, p. 139k–151k.

431. —— The mining industries of eastern Quebec. (American Institute of Mining Engineers, Transactions, New York, 1890, v. 18, p. 316–334.) **VHA**

See p. 320–328 for descriptions of occurrences.

432. **Embargo** on Quebec asbestos under consideration. (Engineering and mining journal-press, New York, 1922, v. 113, p. 738.) **VHA**

Retaliation on the Fordney tariff bill.

433. **English** asbestos manufacturers contemplate factories in the United States. (Canadian mining journal, Gardenvale, 1921, v. 42, p. 419.) **VHA**

Statement of J. Alfred Fisher, chairman of Bell's United Asbestos. For editorial comment see p. 417.

434. **Erdmann,** A. Liége de montagne. (Annales des mines, Paris, 1853, série 5, tome 3, p. 730–731.) 3 – **VHA**

Analyses of mountain cork from Stor-Rymmingen, Sweden.

435. **Esch,** W. Vulco-asbestos. (India rubber journal, London, 1912, v. 44, p. 143.) †† **VMV**

Formula for sheets compounded of rubber, asbestos, and other ingredients.

436. **Eternit** introduces improvements in asbestos corrugated sheets. illus. (Asbestos, Philadelphia, 1927, v. 9, no. 6, Dec., p. 10, 13–15.) **VHA**

437. **Evans,** John W. The identity of the amiantos or karystian stone of the ancients with chrysotile. (Mineralogical magazine, London, 1906, v. 14, p. 143–148.) **PWA**

438. An **Everyday** talk on asbestos, bringing out certain things which are often noticed but seldom commented upon. illus. (Asbestos, Philadelphia, 1923, v. 4, no. 8, p. 12–14, 16, 19–20.) **VHA**

Brief but excellent article on occurrence, length of various fibers, and mining methods.

439. **Eyerman,** John. Contributions to mineralogy. (American geologist, Minneapolis, 1904, v. 34, p. 43–48.) **PTA**

Analysis of asbestos from a Delaware river quarry.

440. **Fabrikate** aus Blau- und Weiss-Asbest. (Gummi-Zeitung, Berlin, 1920, Jahrg. 34, p. 196–197.) † **VMA**

Comparative advantages stated. Abstracted in *India rubber journal*, London, 1920, v. 59, p. 55.

440a. **Fay,** Albert Hill. A glossary of the mining and mineral industry. Washington: Gov. Prtg. Office, 1920. 754 p. 8°. (United States. — Bureau of Mines. Bulletin no. 95.) **VHCA (U. S.)**

441. **Fellowship** for asbestos research. (Canadian mining journal, Gardenvale, 1923, v. 44, p. 33.) **VHA**

442. **Fersmann,** A. [Investigations of the magnesia silicates. The zillerite, zermatite, and palygorsite groups.] St. Pétersbourg, 1913. 430 p. illus. f°. (Académie impériale des sciences de St. Pétersbourg. Mémoires: Classe physico-mathématique. v. 32, no. 4.) * **QCB**

Extensive monograph in Russian covering methods of investigation and descriptions and analyses of specimens from European and Asiatic Russia, western Europe, Austria-Hungary, Roumania, Greece and the United States. Much of historic interest. Contains the author's classification of asbestos-like minerals. Extensive bibliographies.

Lengthy abstract in *Neues Jahrbuch für Mineralogie*, Stuttgart, 1915, Bd. 1, p. 312–323, *PWA*.

443. —— Ueber die Palygorskitgruppe. (Académie impériale des sciences de St. Pétersbourg, Bulletin, St. Pétersbourg, 1908, série 6, tome 2, p. 255–274.) * **QCB**

Discusses the formulae for mountain leather, mountain cork, mountain silk, pilolith, rock-wood and xylotil, placing these minerals in the palygorskite group. Bibliography.

444. **Feuerfeste** Vorhänge für Theater. (Gummi-Zeitung, Dresden, 1904, Jahrg. 18, p. 360–361.) †† **VMA**

Suggestions regarding installation.

445. **Financing** of asbestos merger now under way. (Engineering and mining journal-press, New York, 1926, v. 121, p. 181.) **VHA**

446. **Find** asbestos in Arizona. (Iron trade review, Cleveland, 1920, v. 66, p. 920.) **VHA**

447. **Finland's** asbestos industry. (Asbestos, Philadelphia, 1928, v. 9, no. 7, Jan., p. 16.) **VHA**

448. **Finnland-Asbest.** illus. (Gummi-Zeitung, Dresden, 1903, Jahrg. 18, p. 160–161.) †† **VMA**

449. **Fire** test of a theatre curtain. (Asbestos, Philadelphia, 1924, v. 6, no. 1, p. 14, 17.) **VHA**

Tests conducted by the U. S. Bureau of Standards.

450. The **First** use of asbestos paper. (Asbestos, Philadelphia, 1928, v. 9, no. 11, p. 18.) **VHA**

Stated to have been first made in the United States at Baldwinsville, Mass., about 1870.

451. **Fisher,** Norman R. Asbestos. (Engineering and mining journal, New York, 1927, v. 123, p. 138.) † **VHA**

Review of world statistics for 1926.

452. —— Asbestos. (Engineering and mining journal, New York, 1928, v. 125, p. 99.) † **VHA**

Brief review of the industry in various parts of the world for 1927.

453. —— Asbestos. (Engineering and mining journal-press, New York, 1925, v. 119, p. 94–95.) **VHA**

Consulting engineer of the Thetford mines reviews operations of 1924.

454. —— Asbestos. (Engineering and mining journal-press, New York, 1926, v. 121, p. 96.) **VHA**

Review of world production for 1925.

455. —— Canada's great asbestos industry. The Dominion now supplies fully 80 per cent of the asbestos consumed the world over. illus. (Compressed air magazine, New York, 1923, v. 28, p. 679–684, 711–714.) **VFM**

Copiously illustrated general article describing mining and manufacturing methods, with a statement of Quebec's shipments and values annually, 1878–1922.

456. —— The Quebec asbestos industry. illus. map. (Canadian mining journal, Gardenvale, 1923, v. 44, p. 649–655.) **VHA**

Describes occurrence, mining, and preparation, with a table showing tonnage and prices, 1878–1922.

457. **Flajard,** E. Les fibro-ciments. (Le Ciment, Paris, Jan., 1926, année 31, no. 1, p. 26–27.) **VEA**

Describes manufacture of asbestos cement.

458. **Fontaine,** William M. Notes on the geology and mineral resources of the Floyd, Va., plateau. (The Virginias, Staunton, Va., 1883, v. 4, p. 167, 178–180, 185–192; 1884, v. 5, p. 8–12.) **VHA**

See v. 4, p. 179 for occurrence at Rocky Mount.

459. **Ford,** W. E. A contribution to the optical study of the amphiboles. (American journal of science, New Haven, 1914, series 4, v. 37, p. 179–193.) **OA**

Study of specimens from New York state, Massachusetts, Norway, Canada, and Italy.

460. A **Forecast** of the asbestos mining industry for 1920. (India rubber journal, London, 1920, v. 59, p. 104.) † **VMV**

Statement by the Asbestos and Mineral Corporation.

461. The **Formation** of asbestos. (Asbestos, Philadelphia, 1927, v. 8, no. 11, May, p. 30, 32, 34.) **VHA**

Abstract of various opinions.

462. A **Forward** step in the asbestos-cement industry. (South African journal of industries, Pretoria, 1925, v. 8, p. 572–574.) **TLA**

Invention of S. S. Wilson, involving use of amosite.

463. **Foullon,** H. B. von. Ueber ein Asbestvorkommen in Bosnien. (Austria. — Geologische Reichsanstalt, Verhandlungen, Wien, 1895, p. 365–367.) **PTB**

Analysis. Similar to mineral found in island of Rhodes. Abstract in *Journal of the Chemical Society*, London, 1896, v. 70, part 2, p. 483, *PKA*.

464. —— Über Gesteine und Minerale von der Insel Rhodus. (Kaiserliche Akademie der Wissenschaften, Sitzungsberichte, Math. — natur. Classe, Wien, 1891, Bd. 100, Abt. 1, p. 144–176.) * **EF**

Analyses of rhodusite.

465. **Freeman,** W. C. Asbestos in filing cabinets gives definite fire protection. illus. (As-

[illegible] Philadelphia [illegible], v. [illegible], no. 4, p. [illegible]
[illegible] **VHA**

[illegible] connected with the [illegible]man and [illegible] Manufacturing Company

466. Freiesleben, Johann Carl. Geognostische Arbeiten. Freyberg, [illegible]. [illegible] v. [illegible] **VHE**

Briefly describes occurrences in Saxony.

467. Fresenius, W. Zur Anwendung von Asbest beim Filtriren, speciell bei Verdampfungsversuchen. Zeitschrift für analytische Chemie. Wiesbaden, 1888. Jahrg. 2[illegible], p. [illegible]. **PKA**

Brief abstract in Journal of the Chemical Society, London, 1888, v. 54, Abstracts, p. [illegible]. PKA.

468. Friedel, G. Sur un nouveau gisement de [illegible] (lassallite). (Société française de minéralogie, Bulletin, Paris, 1907, tome 30, p. 80–83.) **PWA**

Description of fibrous silicate found in the Pyrenees mountains.

469. —— Sur la termiérite et la lassallite, deux especes nouvelles de silicates. (Société française de minéralogie, Bulletin, Paris, 1901, tome 24, p. 6–14.) **PWA**

Lassallite is a fibrous silicate which softens in water.

470. Fritsch, J. Fabrication des matières plastiques... Paris: Desforges, Girardot & Cie., 1926. viii, 376 p. illus. 8°. **VOF**

See p. 282–283 for recipes for plastic preparations of asbestos.

471. Frood, G. E. B. The Cape asbestos industry. (India rubber journal, London, 1917, v. 53, p. 17–20.) **† VMV**

Occurrence, prospecting, mining, labor, treatment and prices. Abstract in Journal of the Society of Chemical Industry, London, 1917, v. 36, p. 82, VOA.

472. The **Fusing** point of asbestos. (Asbestos, Philadelphia, 1923, v. 4, no. 11, p. 38.) **VHA**

Quotes authorities.

473. G. Institute notabilities, Colonel J. J. Penhale, D. S. O. port. (Canadian Institute of Mining and Metallurgy, Bulletin, Montreal, 1921, no. 107, p. 237–241.) **VHA**

474. Das **Ganze** der Asbestverarbeitung. illus. (Gummi-Zeitung, Dresden, 1903, Jahrg. 17, p. 589–593, 612–615, 653–657, 675–678.) **†† VMA**

Well illustrated article on preparation of asbestos, spinning, weaving and manufacture of asbestos paper, boards, and packing.

475. Garros, F. Sur une nouvelle porcelaine: porcelaine d'amiante. (Académie des sciences, Comptes rendus, Paris, 1891, tome 113, p. 864–865.) *** EO**

Used for filtration purposes.

Abstracted in *Engineering and mining journal*, New York, 1892, v. 53, p. 111, *VHA*.

476. Gaudry, Albert. Géologie de l'ile de Chypre. illus. (Société géologique de France, Mémoires. Paris, 18[illegible], serie 2, tome [illegible], p. 149–[illegible].) **† PTA**

See Amiante p. [illegible].

477. Die **Gegenwaertige** Lage der Asbest-Industrie. Gummi-Zeitung. Berlin, 1920, Jahrg. 34, p. [illegible]. **VMA**

Translation in [illegible] London, 1920, v. [illegible], p. [illegible]; [illegible] Asbestos, Philadelphia, 1920, [illegible] no. [illegible], p. [illegible], VHA. Abstracted in *Asbestos*, Rochdale, England, 1920, v. [illegible], p. [illegible].

German asbestos not of quality to supply shortage.

478. Geiger, C. W. The asbestos extension hose. illus. Asbestos, Philadelphia, 1928, v. [illegible], no. [illegible], p. [illegible]. **VHA**

Apparatus for controlling oil-tank fires.

479. General Asbestos Co. files petition to appeal adverse decision. Engineering and mining journal-press. New York, 1925, v. 120, p. 73c. **VHA**

Appeal on merger injunction.

480. A **General** view of the Shabani asbestos mine, the biggest producer of the Rhodesian and General Asbestos Corporation, Ltd. illus. (South African mining and engineering journal year book, 1926. Johannesburg, 1926, p. 184.) **† VHF**

A striking panorama.

481. Geoffroy, H. Sur un nouveau procédé d'isolement des fils electriques. (Académie des sciences, Comptes rendus, Paris, 1882, tome 95, p. 331–332.) *** EO**

Copper wire insulated with asbestos and threaded through a lead pipe. Brief notice in *Engineering and mining journal*, New York, 1882, v. 34, p. 176, *VHA*.

482. Geologic explorations for asbestos. (Engineering and mining journal, New York, 1921, v. 111, p. 57.) **VHA**

Describes occurrence in the Apache and San Carlos Indian reservations of Arizona.

483. George, Russell D. Geology and natural resources of Colorado. Boulder, Col.: University of Colorado, 1927. xv, 228 p. illus. 8°. (University of Colorado semicentennial series. v. 1.) **PVC**

Brief reference to occurrence in Boulder county.

484. George D. Crabbs, a brief sketch. (Asbestos, Philadelphia, 1920, v. 1, no. 12, p. 20–21, 23.) **VHA**

Mr. Crabbs is president of the Philip Carey Company, Cincinnati, Ohio.

485. George Schafenacker. port. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 8, 10.) **VHA**

One of the incorporators of the Asbestos Fibre Spinning Company. Obituary notice.

486. The **German** asbestos industry. (Asbestos, Philadelphia, 1921, v. 2, no. 12, p. 31–32.) **VHA**

487. The **German** asbestos trade. (India rubber journal, London, 1901, v. 22, p. 341.) **† VMV**

Discussion on prices.

488. Gerstendoerfer, Joseph. Die Mineralien von Mies in Böhmen. (Akademie der Wissenschaften, Sitzungsberichte, Mathematisch-naturwissenschaftliche Classe, Wien, 1891, Jahrg. 1890, Bd. 99, Abt. 1, p. 422–465.) *** EF**

See p. 461–463.

489. Ghambashidze, D. Mineral resources of Georgia and Caucasia. London: George Allen & Unwin, Ltd.; New York: The Macmillan Company, 1919. 182 p. illus. 8°. **VHE**

Cites occurrences in Georgia of a stiff asbestos that cannot be twisted or woven.

490. Gibson, W. F. Asbestos cement. (Asbestos, Rochdale, 1920, v. 3, p. 25–26, 62–63, 99–100, 142.) **VLA**

491. Gilroy, Clinton G. Asbestos. (In his: History of silk, etc. New York, 1845. p. 392–399.) **VL**

Brief history of uses.

492. Gimma, D. Giacinto. Della storia naturale, delle gemme, delle pietre, e di tutti i minerali, ovvero della fisica sotterranea. Napoli: Gennaro Muzio, 1730. 2 v. 4°. **PWF**

See v. 1, p. 373–381 for names of varieties, uses, perpetual lamps, medicinal uses, and symbolism.

493. Gluehkoerper aus Asbest. (Gummi-Zeitung, Dresden, 1902, Jahrg. 16, p. 758.) **†† VMA**

Refers to Saubermann's patent.

494. Gordon, Samuel G. On arfvedsonite, riebeckite, and crocidolite from Greenland. illus. (Academy of Natural Sciences of Philadelphia, Proceedings, Philadelphia, 1927, v. 79, p. 193–205.) *** EA**

495. Goske, A. Ein neues Asbestfilterrohr. illus. (Chemiker-Zeitung, Cöthen, Jahrg. 22, Sem. 1, p. 21.) **VOA**

Abstract in *Journal of the Society of Chemical Industry*, London, 1898, v. 17, p. 183, *VOA; Journal of the Chemical Society*, London, 1899, v. 76, part 2, p. 16, *PKA*.

496. Government control of asbestos export. (Canadian mining journal, Gardenvale, 1924, v. 45, p. 417–418.) **VHA**

Editorial comment on statement of W. G. Ross.

497. Grading of asbestos. (Engineering and mining journal, New York, 1922, v. 113, p. 493.) **VHA**

Described in detail.

498. Graham, R. P. D. Mines and mineral deposits of Canada. (Canadian Institute of Mining and Metallurgy, Bulletin, Montreal, 1924, no. 151, p. 715–830.) **VHA**

See p. 790–794 for occurrence, mining and statistics.

499. —— Origin of massive serpentine and chrysotile-asbestos, Black Lake-Thetford area, Quebec. (Economic geology, Lancaster, Penn., 1917, v. 12, p. 153–202.) **PTA**

Also as McGill University publications, series 5, no. 2, *PTA*.

500. Gray, Alexander. The asbestos industry. (Canadian mining journal, Gardenvale, 1925, v. 46, p. 15–17.) **VHA**

Unfavorable conditions due to lack of cooperation among producers.

501. —— Asbestos industry readjusted. (Canadian mining journal, Gardenvale, Que., 1926, v. 47, p. 402–403.) **VHA**

Effects of the merger.

502. —— Mining engineer Brigham prescribes for the industry. (Asbestos, Philadelphia, 1924, v. 6, no. 6, p. 28, 30.) **VHA**

Mr. Brigham said: "There are too many mines and mills, too many sales managers breaking their necks to get markets for their materials."

503. —— Montreal letter. Fair year for asbestos industry in Canada. Outlook encouraging, says Ross. (Engineering and mining journal-press, New York, 1923, v. 115, p. 464.) **VHA**

Quotations from annual report of the Asbestos Corporation of Canada.

504. —— Orderly readjustment in asbestos industry. (Canadian mining journal, Gardenvale, 1921, v. 42, p. 997–998.) **VHA**

505. —— Progress of the asbestos industry of Quebec. (Mining world, Chicago, 1910, v. 32, p. 154–155.) **VHA**

506. Great Britain. — Board of Trade. Final report on the first census of production of the United Kingdom (1907). London: His Majesty's Stationery Office, 1912. viii, 938 p. 4°. **† SDG**

See p. 756–757, 777–778 for statistics of the asbestos and boiler coverings trades. For abstract of a preliminary report see *India rubber journal*, London, April 22, 1911, v. 41, p. 910–911, † *VMV*.

507. Great Britain. — Imperial Mineral Resources Bureau. The mineral industry of the British Empire and foreign countries. Statistics...Asbestos, 1919/21, 1920/22. London, 1924–25. 2 v. 8°. **VHT**

508. —— ...The mineral industry of the British Empire and foreign countries. War period. Asbestos. (1913–1919.) London: H. M. Stationery Office, 1921. 34 p. tables. 8°. **PTI p.v.38, no.4**

See also *India rubber journal*, London, 1921, v. 61, p. 707–710, † *VMV*.

509. Green, John F. A new rubber and asbestos compound. (India rubber world, New York, 1914, v. 51, p. 133.) **† VMV**

Uses fibrous quartz i. e.: asbestos deprived of magnesia and ferrous oxide. Also in *India rubber journal*, London, 1914, v. 48, p. 1043, † *VMV*.

510. Gregory, R. L. Applications of asbestos by sulphite mills. (Asbestos, Philadelphia, 1922, v. 3, no. 8, p. 5–7.) **VHA**

511. —— Asbestos and its uses in modern electrical practices. (Asbestos, Philadelphia, 1920, v. 2, August, p. 5–10.) **VHA**

Also in *India rubber journal*, London, 1920, v. 60, p. 461–462, † *VMV*.

512. —— Use of asbestos in electric lifting magnet. (Asbestos, Philadelphia, 1921, v. 2, no. 12, p. 43, 45.) **VHA**

513. **Grew,** Nehemiah. Musæum regalis societatis, or a catalogue and description of the natural and artificial varieties belonging to the Royal Society and preserved at Gresham College... London: W. Rawlins, 1681. 4 p.l., 386, 43 p. illus. 4°. **† OAP**

Brief reference to amianthus, bastard-amianthus, fibrous blood-stone, and spaud.

514. **Griffin,** N. H. Asbestos in Rhodesia. (Canadian Institute of Mining and Metallurgy, Bulletin, Montreal, 1921, no. 109, p. 448–450.) **VHA**

515. **Grimmer,** Johann. Asbestos from Alilovci, district of Sauskimost [Bosnia]. (Chemical Society, Journal, London, 1901, v. 80, part 2, p. 561.) **PKA**

Abstract only. Analyses.

516. Die **Gummi-** und Asbestwaren-Industrie auf der Düsseldorfer Gewerbe- und Industrie-Ausstellung. (Gummi-Zeitung, Dresden, 1902, Jahrg. 16, p. 693–694, 734–735.) **†† VMA**

517. [The **H. W. Johns** Manufacturing Company.] (Engineering and mining journal, New York, 1891, v. 52, p. 51–52, 103.) **VHA**

Consolidation of the five largest asbestos manufacturers in the United States.

518. **Hacquet,** Balthasar. Verzeichniss der hauptsächlichsten Arten und Arbaten der Queksilber- und Zinnobererze aus der Grube von Hydria oder Idria im Herzogthum Krain. (Berlinische Gesellschaft naturforschender Freunde, Beschäftigungen, Berlin, 1777, Bd. 3, p. 56–106.) **3 – * EE**

519. **Haight,** H. V. New cableways of Asbestos Corporation, Ltd. illus. (Canadian mining journal, Gardenvale, Que., 1927, v. 48, p. 618–621.) **† VHA**

520. **Hall,** Arthur Lewis. The amosite deposits of the Transvaal. Occurrences unknown elsewhere. Unique length of fibre. Several valuable physical properties. illus. (South African mining and engineering journal, Johannesburg, 1928, v. 39, p. 729–731.) **†† VHA**

521. —— The asbestos resources of the Union of South Africa. The available varieties, with particulars of their distribution and mode of occurrence, including methods used in the recovery of the mineral, grading, etc. — extent of local consumption — the output of asbestos since union, list of producers and bibliography. (South African journal of industries, Pretoria, 1924, v. 7, p. 725–731.) **TLA**

522. —— ...Asbestos in the Union of South Africa... Pretoria: Gov. Prtg. and Stationery Office, 1918. 152 p. illus. 8°. (Union of South Africa. — Geological Survey. Memoir no. 12.) **PTB (Union of South Africa)**

Author's summary and conclusions are in *South African mining and engineering journal,* Johannesburg, 1928, v. 39, part 1, p. 601–603, †† *VHA.* Abstract in *Engineering and mining journal,* New York, 1920, v. 109, p. 346–347, † *VHA.*

523. —— The geology of the Barberton gold mining district, including adjoining portions of northern Swaziland. Pretoria, 1918. 347 p. illus. 4°. (Union of South Africa. — Geological Survey. Memoir no. 9.) **PTB (Union of South Africa)**

See index.

524. —— The geology of the country northeast of Carolina. (Union of South Africa. — Geological Survey, Annual report for 1913. Pretoria, 1914. 4°. part 5, p. 33–60.) **3 – † VHFA**

See p. 57–60.

525. —— On the asbestos occurrences near Kaapsche Hoop, in the Barberton district. illus. (Geological Society of South Africa, Transactions, 1921, Johannesburg, 1922, v. 24, p. 168–181.) **PTA**

526. —— On the mode of occurrence and distribution of asbestos in the Transvaal. (Geological Society of South Africa, Transactions, 1918, Johannesburg, 1919, v. 21, p. 1–36.) **PTA**

527. **Hall,** R. E. Asbestos. illus. (Tech engineering news, Cambridge, Mass., 1927, v. 8, p. 168, 182, 186, 188, 200.) **† VDA**

528. **Harpell,** J. J. The asbestos industry. (Canadian mining journal, Toronto, 1910, v. 31, p. 50–52.) **VHA**

Discusses South African and Russian competition in relation to Canadian producers.

529. **Harrington,** B. J. Ueber canadischen Spessartin und Bergkork. (Zeitschrift für Krystallographie, Leipzig, 1894, Bd. 22, p. 309–310.) **PWA**

Analyses of mountain cork from Buckingham, Canada.

530. **Harris,** C. P. Asbestos covering for steam pipes, their various formations. (Asbestos, Philadelphia, 1927, v. 8, no. 12, June, p. 6, 8, 10.) **VHA**

531. **Harvie,** Robert. Asbestos deposits of the province of Quebec. illus. maps. (In: Canada. — Geological Survey. Guide book no. 2. Excursions in the eastern townships of Quebec and the eastern part of Ontario. Ottawa, 1913. 12°. p. 99–117.) **PVA**

Has two excellent maps.

532. **Harwood,** Channing E. Brakeology. illus. (Asbestos, Philadelphia, 1923, v. 5, no. 1, p. 5–8, 10; no. 4, p. 5–8.) **VHA**

533. **Haüy,** René Just. Traité de minéralogie. Seconde édition, revue, corrigée et consid-

érablement augmentée. Paris, 1822–23. Text, 4 v., 8° and atlas, 4°. **PWD**

See v. 2, p. 388–389 for fibrous amphibole; p. 481–488 for properties, varieties, occurrence, and ancient uses of asbestos.

534. Hausmann, Johann Friedrich Ludwig. Handbuch der Mineralogie. Göttingen, 1813. 3 v. in 1. 1158 p. 12°. **3 – PWD**

See p. 734–741 for occurrence and characteristics of various varieties. Library also has 2. ed., 1818–47, *PWD.*

Paged continuously.

535. Hautpick, E. de. Russian asbestos deposits. (Mining journal, London, Aug. 3, 1912, v. 98, p. 783–784.) **3 – † VHA**

Describes occurrences in the Urals, Siberia, and the Caucasus. Abstracted in *Canadian mining journal,* 1912, v. 33, p. 576, *VHA.*

536. Havard, F. T. The condensation of fume and the neutralization of furnace gases. (American Institute of Mining Engineers, Transactions, New York, 1911, v. 41, p. 631–647.) **VHA**

Use of asbestos filter bags installed by Louis Fiechter.

537. Heckel, G. B. Asbestos in the paint industry. (Asbestos, Philadelphia, 1920, v. 2, no. 1, p. 5–8, 10.) **VHA**

538. Heddle, Matthew Forster. Chapters on the mineralogy of Scotland. Chapter fourth. — Augite, hornblende, and serpentinous change. (Royal Society of Edinburgh, Transactions, Edinburgh, 1879, v. 28, p. 453–555.) *** EC**

See p. 502–507 for analyses of amianthus, asbestos, tremolite, and nephrite.

"The purest and most flexible amianthus in Scotland — probably in the world — is to be found in the thin rifts in the diallage rock of Balta in Shetland." — *p. 502.*

539. —— The county geognosy and mineralogy of Scotland. (Mineralogical magazine, London, 1879, v. 2, p. 9–35.) **PWA**

Description and analysis of amianthus from the Shetland islands.

540. —— The mineralogy of Scotland, edited by J. G. Goodchild. Edinburgh: D. Douglas, 1901. 2 v. illus. 4°. **VHE**

Occurrence and descriptions of various asbestiform minerals in section on silicates, v. 2.

541. —— Pilolite, an unrecognized species. (Mineralogical magazine, London, 1879, v. 2, p. 206–219.) **PWA**

Endeavors to show that mountain cork and mountain leather are distinct from amphibole or any other known mineral. Analyses of Scottish specimens.

542. —— Preliminary notice of substances which may prove to be new minerals. (Mineralogical magazine, London, 1880, v. 3, p. 57–68.) **PWA**

Description and analysis of abriachanite. Abstracted in *Zeitschrift für Krystallographie,* Leipzig, 1881, Bd. 5, p. 620, *PWA.*

543. Heermann, P., and H. Sommer. Die Bestimmung von Gemischen aus Asbest und Baumwolle. (Prussia. — Materialprüfungsamt zu Berlin-Dahlem, Mitteilungen, Berlin, 1921, Jahrg. 39, Heft 5, p. 315–329.) **VA**

Noteworthy article on the analysis of asbestos fabrics. Valuable tables on water-content, effects of temperature and acids, covering samples from various parts of the world. Abstracted in *Canadian textile journal,* April 24, 1923, *VLA; Journal of the Society of Chemical Industry,* London, 1922, v. 41, p. 745a, *VOA; India rubber world,* New York, 1923, v. 67, p. 361, † *VMV; Gummi-Zeitung,* 1922, Jahrg. 37, p. 176–177, †† *VMA.*

544. —— Zur Kenntnis der Asbeste und die Bestimmung von Gemischen aus Asbeste und Baumwolle. (Textilberichte über Wissenschaft, Industrie und Handel, Mannheim, 1922, Jahrg. 3, p. 338–340, 361–363, 382–384.) **VLA (Melliand)**

Practically the same as entry no. 543.

545. Heil, Adolf. La fabrication des tissus d'amiante. illus. (Caoutchouc & gutta-percha, Paris, 1912, année 9, p. 5833–5838, 5949–5950, 6033–6034, 6136–6139, 6319–6323, 6384–6387, 6638; 1913, année 10, p. 7854–7856; 1914, année 11, p. 8184–8191.) **VMV**

Describes and illustrates machinery.

546. Henderson, J. Chrysotile asbestos in the upper Takaka district. (New Zealand journal of science and technology, Wellington, 1923, v. 6, p. 120–123.) **OA**

Abstracted in *Asbestos,* Philadelphia, 1924, v. 6, no. 2, p. 27–28, *VHA.*

547. Henry Melville Whitney. (Asbestos, Philadelphia, 1923, v. 4, no. 9, p. 31–32, 34.) **VHA**

Mr. Whitney was prominently identified with the Canadian asbestos industry.

548. Hepburn, G. Grant. Griqualandite, a pseudomorph of crocidolite. (Chemical news, London, 1887, v. 85, p. 240.) **PKA**

Has analysis.

549. Hermann, R. Untersuchungen russischer Mineralien. (Journal für praktische Chemie, Leipzig, 1845, Jahrg. 1845, Bd. 1, p. 177–181.) **PKA**

See p. 180–181 for analysis of mountain-wood from Ural mountains.

550. Herstellung von Asbestpappe. (Papier-Zeitung, Berlin, 1921, Jahrg. 46, p. 2351–2352.) **3 – †† VMA**

551. Herzberg, W. Handelsbrauch im Verkehr mit Asbestpappe. (Prussia. — Materialprüfungsamt zu Berlin-Dahlem, Mitteilungen, Berlin, 1922, Jahrg. 40, Heft 6, p. 293–294.) **3 – VEA**

Also in *Wochenblatt für Papierfabrikation,* Stuttgart, 1923, Jahrg. 54, Nr. 26, p. 1856–1857, †† *VMPA.*

552. —— Kleine Mitteilungen aus der Abteilung für Papierprüfung. (Prussia. — Materialprüfungsamt zu Berlin-Dahlem, Mitteilungen, Berlin, 1921, Jahrg. 39, Heft 2, p. 140–148.) **3 – VEA**

For tests on asbestos boards see p. 145–148.

553. Hinard, G. La porcelaine d'amiante. Son emploi à la filtration des liquides ali-

mentaires et des sérums. illus. (Société d'encouragement pour l'industrie nationale, Bulletin, Paris, 1913, tome 119, sem. 1, p. 253–265.) **VA**

Abstract in *Journal of the Society of Chemical Industry*, London, 1913, v. 32, p. 446–447, *VOA*.

554. Hintze, Carl. Handbuch der Mineralogie. Leipzig: Veit & Co., 1898–1916. 2 v. 8°. **PWD**

See Bd. 2, p. 766–767, 1194–1197 for discussion as to nomenclature.

555. Hirsch, William Crawford. Asbestos — its use in the electrical industry. illus. (Electrical record, New York, 1925, v. 37, Jan., p. 12–13.) **VGA**

556. Hisinger, Wilhelm. Versuch einer mineralogischen Geographie von Schweden, uebersetzt und mit Erläuterungen und Zusätzen versehen von K. A. Blöde. Freyberg: Craz und Gerlach, 1819. xii, 567 p. 12°. **VHE**

Occurrences briefly referred to on p. 56, 74, 90, 123, 125, 132, 164, 219, 225–227.

557. Hoffmann, Karl August Siegfried. Handbuch der Mineralogie. Freyberg: Craz und Gerlach, 1811–18. 4 v. 8°. **PWD**

Characteristics and uses.

558. Hoffmann, Th. Über Asbest, seine Auswahl und Eignung für technische Verwendung. (Chemische Apparatur, Leipzig, 1928, Jahrg. 1928, Korrosion Supplement, Jahrg. 3, p. 21–22, 33–34.) † **VOA**

559. Hollywood asbestos. (Asbestos, Philadelphia, 1924, v. 5, no. 10, p. 30.) **VHA**

Stated to be an unusually high-resistant of heat and acids. Mine is in Georgia.

560. The Hon. George R. Smith. port. (Asbestos, Philadelphia, 1922, v. 3, no. 7, p. 20–22.) **VHA**

A pioneer in the Canadian field.

561. Hopkins, Oliver Baker. Asbestos deposits of Georgia. (American Institute of Mining Engineers, Transactions, New York, 1915, v. 50, p. 964–973.) **VHA**

562. —— A report on the asbestos, talc and soapstone deposits of Georgia. Atlanta: C. P. Byrd, 1914. xv, 319 p. illus. 4°. (Georgia. — Geological Survey. Bulletin 29.) **PTB (Georgia)**

Analyses, insulating tests, origin, uses, mining methods, with descriptions of deposits in Canada, Vermont, Virginia, Wyoming, Idaho, California, Arizona.

563. Hore, Reginald E. Asbestos mining in Quebec. illus. (Canadian mining journal, Toronto, 1913, v. 34, p. 633–636.) **VHA**

Briefly describes mining methods and mill treatment.

564. Hosie, Lady Dorothea. A Chinese asbestos factory. illus. (Asbestos, Rochdale, 1920, v. 3, p. 64–65, 101–105.) **VLA**

Abstracted in *Asbestos*, Philadelphia, 1920, v. 2, p. 31–33, *VHA*; *India rubber journal*, London, p. 115–116, † *VMV*.

565. How asbestos cloth or asbestos fibre is waterproofed and coloured. (India rubber journal, London, 1926, v. 71, p. 390.) † **VMV**

566. Howard, Ralph. The role of asbestos. Some facts on the growing importance of this substance in industry and architecture. illus. (Scientific American, New York, 1920, v. 123, p. 42, 52.) **VA**

567. Hoyle, John Thomas. Asbestos, "the unquenchable stone"; a brief account of the romantic history and dramatic rise of the most interesting mineral in the world. Buffalo, N. Y.: The Republic Asbestos Board Corporation [cop. 1927]. 45 p. illus. 8°. **VHBD p.v.81**

568. Hubbard, Wynant D. The Black Lake asbestos area. District rich in chrysotile asbestos deposited in serpentine. Open-pit mining using derricks and cables is the usual practice. Much labor required. Welfare work not general. illus. (Engineering and mining journal, New York, 1921, v. 112, p. 365–368.) **VHA**

For criticism of this article see C. C. Lindsay, entry no. 641.

569. —— Mr. Hubbard and the Black Lake asbestos mines. (Engineering and mining journal, New York, 1921, v. 112, p. 683.) **VHA**

Reply to article by C. C. Lindsay. See entry no. 641.

570. Idaho-Montana Asbestos Co. plans to build mill. (Engineering and mining journal-press, New York, 1925, v. 119, p. 617.) **VHA**

Produces golden yellow chrysotile of spinning quality.

571. Iddings, Joseph Paxson. Rock minerals; their chemical and physical characters and their determination in thin sections. New York: John Wiley and Sons, 1911. xiii, 617 p., 2 charts. 2. ed. 8°. **PWS**

Amphibole group, p. 345–373.

572. L'Industria dell' asbesto in Russa. (Associazione mineraria italiana, Bollettino, Roma, 1926, anno 8, p. 593–595.) † **VHA**

General article with statistics.

573. [International Asbestos Mills Co., and others.] (Engineering and mining journal, New York, 1912, v. 94, p. 83.) **VHA**

Promoters of above company, also of the North American Asbestos Company, and the Consolidated Asbestos Company, indicted by Federal jury for using mails to defraud.

574. Iskuell, Wold. Über den Rhodusite vom Flusse Asskys (Bergbezirk Minussinsk in Siberien). Beiträge zur Kenntnis seiner chemischen Constitution und Verwitterung. (Zeitschrift für Krystallographie, Leipzig, 1908, Bd. 44, p. 370–389.) **PWA**

Analyses.

575. Ivanov, V. N. [New method of precipitating platinum and analysis of platinized asbestos.] (Russian Physico-chemical Society, Journal, Petrograd, 1916, v. 48, p. 527–529.) **PKA**

In Russian.

Abstract in *Journal of the Society of Chemical Industry*, London, 1917, v. 36, p. 290, *VOA*.

576. Jacob A. Jacobs. port. (Asbestos, Philadelphia, 1921, v. 2, no. 10, p. 22–23, 25.) **VHA**

Mr. Jacobs is interested in the Boston mine at East Broughton; also in the Asbestos Corporation.

577. Jervis, H. Laboratory notes. Asbestos. Combustion furnaces. illus. (Chemical news, London, 1898, v. 77, p. 5–6.) **PKA**

Asbestos is easily moulded and applicable to a large number of laboratory uses. Abstract in *Journal of the Chemical Society,* London, 1898, v. 74, part 2, p. 373, *PKA.*

578. Johns, H. W., Manufacturing Co. Asbestos and its uses. New York [1898]. 12 p. 16°. **VLO p.v.1, no.1**

Advertising pamphlet.

579. Johns-Manville, H. W., Co., New York. Johns-Manville service to industry; asbestos roofings, heat insulations, packings; electrical insulations, waterproofing, industrial flooring, etc... [New York, 1923.] 260 p. illus. diagrs., tables. 4°. **VLR**

580. —— Johns-Manville service to railroads, asbestos roofings, packings and insulations: steam and electrical railroad supplies... [New York, 1923.] 264 p. illus. diagrs., tables. 4°. **TPD**

581. Johns-Manville Company plans million dollar asbestos plant. (Engineering and mining journal-press, New York, 1922, v. 114, p. 253.) **VHA**

582. Johnsen, A. Ueber den Krokydolith von Griqualand West. (Centralblatt für Mineralogie, Geologie und Paläontologie, Stuttgart, 1910, Jahrg. 1910, p. 353–356.) **PWA**

Mineralogical characteristics with references.

583. Johnson, B. L. A simple device for the rapid preparation of fine asbestos fiber. illus. (Industrial and engineering chemistry, Easton, Penn., 1923, v. 15, p. 632.) † **VOA**

Abstract in *Journal of the Society of Chemical Industry,* London, 1923, v. 42, p. 1204a, *VOA.*

584. Jonas, Joseph. Ungerns Mineralreich; orycto-geognostisch und topographisch dargestellt... Pesth, 1820. xlviii, 414 p. 8°. **VHE**

Brief references to occurrences, p. 211, 330.

585. Jones, A. R. R. Asbestos manufacture in Canada. The action of the Canadian Johns-Manville Company, Ltd., in erecting a manufacturing plant in this country is a departure fraught with great possibilities. (Canadian mining journal, Gardenvale, 1921, v. 42, p. 576.) **VHA**

586. Jones, Fayette Alexander. Epitome of the economic geology of New Mexico. Albuquerque, N. M.: New Mexico Bureau of Immigration, 1908. 47 p. 12°. **PVC**

See p. 30.

587. Jones, H. Asbestos in South Australia. (Australian mining standard, Sydney and Melbourne, 1912, v. 48, p. 9.) 3 – † **VHF**

588. Jones, Robert H. Asbestos and asbestic: their properties, occurrence, and use. London: Crosby Lockwood & Son, 1897. xiii, 368 p., 2 maps, 1 plan, 13 pl. 8°. **VHT**

Reviewed in *Engineering and mining journal,* New York, 1898, v. 65, p. 397, *VHA.*

589. Jones, W. H. The asbestos position in southern Africa. Some notes on occurrence, distribution, production and marketing — a plea for a local manufacturing industry. (South African mining and engineering journal, Johannesburg, 1927, v. 37, part 2, p. 545–548.) †† **VHA**

590. Joseph, Henry. Resistance of various asbestiform minerals against heat. (Asbestos, Philadelphia, 1923, v. 5, no. 5, p. 34, 36.) **VHA**

Reviews literature of the subject and gives results of his own investigations.

591. Judge, A. T. Asbestos in the Union. (Chemical, Metallurgical and Mining Society of South Africa, Journal, Johannesburg, 1923, v. 24, p. 84–90.) **VHA**

With discussion.

Describes occurrence of chrysotile, crocidolite, amosite, and tremolite, with notes on uses of asbestos.

Abstracted in *Canadian mining journal,* 1924, v. 45, p. 134–135, *VHA.*

592. Kalkowsky, Ernst. Geologie des Nephrites im südlichen Ligurien. (Deutsche geologische Gesellschaft, Zeitschrift, Berlin, 1906, Bd. 58, p. 307–378.) **PTA**

Asbestos occurrence described, p. 315.

593. Kallauner, O. Ueber die Asbestzementwaren-Erzeugung in der Tschechoslowakei. illus. (Zement, Berlin, 1927, Jahrg. 16, p. 464–468.) **VHA**

Good descriptive article with pictures of equipment.

594. Kallauner, O., and S. Seidl. Forschung über die Eigenschaften und Prüfungsmethoden der Rohmaterialien und Erzeugnisse aus der Asbestzementwarenherstellung. illus. (Zement, Berlin, 1927, Jahrg. 16, p. 485–488.) **VHA**

Testing and analysis.

595. Katz, G. Henry. In the case of aircell. (Asbestos, Philadelphia, 1924, v. 5, no. 9, p. 5–6.) **VHA**

Comments on price reductions of 3 Ply Air Cell.

596. —— The newest arrival in the pipe-covering line. illus. (Asbestos, Philadelphia, 1922, v. 3, no. 12, p. 5–8, 10, 13–14, 17.) **VHA**

Describes "2 point" heat insulation made by The Norristown Magnesia and Asbestos Company.

597. Keep, F. E. Observations on the Shabani chrysotile-asbestos deposits. illus. (South African Association for the Advancement of Science, Report of annual meeting, Johannesburg, 1927, v. 24, p. 146–154.) * **EY**

Also in *South African mining and engineering journal,* Johannesburg, 1928, v. 39, part 1, p. 5–6, 326–328, † *VHA.*

598. Keep cool with asbestos. (Asbestos, Philadelphia, 1924, v. 6, no. 1, p. 41.) **VHA**

Use of asbestos cloth for keeping front of automobile cool.

599. Kenngott, A. Bergholz von Sterzing in Tirol. (Akademie der Wissenschaften, Sitzungsberichte. Mathematisch-naturwissenschaftliche Classe, Wien, 1854, Jahrg. 1853, Bd. 11, p. 388–392.) *** EF**

600. Kersting, Paul. Zur Characteristik des Asbestes verschiedener Provenienz. (Chemische Industrie, Berlin, 1898, Jahrg. 21, p. 171–174.) **3 – VOA**

Analyses of Canadian and South African samples, with tests for acid and fire resistance, porosity, and heat conduction.

Also in *Gummi-Zeitung*, Dresden, 1898, Jahrg. 12, p. 320–321, 328–329. †† *VMA*.

Abstracted in *Chemisches Central-Blatt*, Berlin, 1898, Jahrg. 69, part 2, p. 125, *VOA*; *Journal of the Chemical Society*, London, 1899, v. 76, part 2, p. 765, *PKA*; *Journal of the Society of Chemical Industry*, London, 1898, v. 17, p. 659, *VOA*.

601. Kircher, Athanasius. Mundus subterraneus... Amsterdam, 1678. 2 v. f°. †† **PT**

See v. 2, lib. viii, section 3, for uses, properties, and perpetual lamps.

602. Kirwan, Richard. Elements of mineralogy. London, 1794–96. 2 v. 2. ed. 8°. **PWD**

See v. 1, p. 159–170.

603. Klaproth, Martin Heinrich. Chemische Untersuchung des Blau-Eisensteins vom Cap der guten Hoffnung. (In his: Beiträge zur chemischen Kenntniss der Mineralkörper. Berlin, 1815. 8°. Bd. 6, p. 237–241.) **PWH**

604. —— Chemische Untersuchung des Faserquarzes vom Cap der guten Hoffnung. (In his: Beiträge zur chemischen Kenntniss der Mineralkörper. Berlin, 1815. 8°. Bd. 6, p. 233–236.) **PWH**

Gives the name fibrolite to South African fibrous quartz.

605. Klein, L. A. The Canadian asbestos industry. (In: Canada. — Geological Survey, Annual report, 1890–91, Ottawa, 1893, v. 5, part 2, p. 12ss–23ss.) **PTB (Canada)**

Describes mining and dressing.

606. Kleinberger, R. E. Schaaf-Regelmann. port. (Asbestos, Philadelphia, 1924, v. 5, no. 11, p. 5–6, 9, 11.) **VHA**

607. Knight, J. Hartley. Asbestos in the Transvaal. (Engineering and mining journal, New York, 1907, v. 83, p. 850.) **VHA**

Brief reference to property of the Anglo-Swiss Syndicate.

608. Knoedler, E. L. Making gas mantles durable. illus. (Asbestos, Philadelphia, 1921, v. 2, no. 9, p. 5–8, 10.) **VHA**

Describes use of asbestos in shirring and sewing operations.

609. Knops. Ueber Asbestfabrikate. (Chemisches Central-Blatt, Leipzig, 1881, Folge 3, Jahrg. 12, p. 335.) **PKA**

"The fabrics made of bostonite are light, soft, and white, and the sheets are flexible and unctuous to the touch."

Abstract in *Journal of the Chemical Society*, London, 1882, Abstracts, v. 42, p. 116, *PKA*.

610. Kobell, Wolfgang Xavier Franz von. Geschichte der Mineralogie, von 1650–1860. München, 1864. xvi, 703 p. 8°. **PW**

Brief accounts of fibrous minerals with mention of notable investigators. See especially p. 473–474, 511, 663.

611. —— Über den schillernden Asbest von Reichenstein in Schlesien. (Journal für praktische Chemie, Leipzig, 1834, Jahrg. 1834, Bd. 2, p. 297–298.) **PKA**

This mineral afterwards named chrysotile by the author.

612. —— Ueber den Spadait, eine neue Mineralspecies, und über den Wollastonit von Capo di Bove. (Journal für praktische Chemie, Leipzig, 1843, Jahrg. 1843, Bd. 3, p. 467–471.) **PKA**

Kobell gave chrysotile its name. See p. 469.

613. Koenig, George A. On zinc-manganese, asbestos. (Academy of Natural Sciences of Philadelphia, Proceedings, 1887, Philadelphia, 1888, v. 39, p. 47–48.) *** EA**

Analyses of specimens of asbestos from the Franklin zinc mines, New Jersey.

Abstracted in *Neues Jahrbuch für Mineralogie*, Stuttgart, 1888, Bd. 1, Referate, p. 188, *PWA*.

614. Kohn, Hugo Stefan. Wertschätzung des Asbestes im Mittelalter. (Chemiker-Zeitung, Cöthen, 1912, Jahrg. 36, p. 31.) **VOA**

Quotes from Joachim von Sandrart regarding the utilization of asbestos in Greco-Roman and mediaeval ages.

615. Koksharov, Nikolai Ivanovich. Materialien zur Mineralogie Russlands. St. Petersburg, 1853–78. 8 v., 4° and atlas, 4°. **VHE**

See v. 8, p. 166–169, 207–208, 223–224 for brief references to occurrences, also for name derivatives of several varieties.

616. Kolthoff, I. M. Importance of adsorption in analytical chemistry. VIII: The adsorption of asbestos. (Chemical Society, Journal, London, 1921, v. 120, part 2, p. 344–345.) **PKA**

Abstract only. Also abstracted in *Journal of the Society of Chemical Industry*, London, 1921, v. 40, p. 327a, *VOA*.

617. Kornfeld. Asbestos zur Krankheitsverhinderung. (Gummi-Zeitung, Dresden, 1902, Jahrg. 16, p. 989.) †† **VMA**

Cites uses of asbestos in medical practice.

618. Krenkel, Erich. Geologie Afrikas. Berlin: Gebrüder Borntraeger, 1925–28. 2 v. illus. diagrs., maps. 4°. (Geologie der Erde.) **PVW**

Brief reference to occurrences in South Africa, p. 897–898.

619. Kreutz, Stefan. Untersuchung der optischen Eigenschaften von Mineralien der Amphibolgruppe und ihre Abhängigkeit von der chemischen Zusammensetzung. illus. (Kaiserliche Akademie der Wissenschaften, Sitzungsberichte. Mathematisch-naturwissenschaftliche Klasse, Wien, 1908, Bd. 117, Abt. 1, p. 875–970.) *** EF**

For tremolite and actinolith see p. 914–943.

620. **Kryshanofsky,** W. F. Serpentine asbestos deposits in the Urals. (Mining and engineering world, Chicago, 1912, v. 37, p. 1002.) **VHA**

Mode of occurrence and mining methods.

621. **Kupferburger,** W. Chrysotile in the Union of South Africa. (Asbestos, Philadelphia, 1928, v. 9, no. 11, p. 3, 5–6, 8, 10.) **VHA**

Describes deposits.

622. **L.,** G. Asbestpappen-Fabrikation. (Papier-Zeitung, Berlin, 1903, Jahrg. 28, p. 173–174.) **3 – †† VMA**

623. **Lacroix,** A. Sur les propriétés optiques de la crocidolite et la diffusion de ce minéral. (Société française de minéralogie, Bulletin, Paris, 1890, tome 13, p. 10–15.) **PWA**

624. —— Sur une roche à amphibole sodique (riebeckite), astrophyllite, pyrochlore et zircon du Colorado. (Académie des sciences, Comptes rendus, Paris, 1889, tome 109, p. 39–41.) *** EO**

625. **Ladoo,** Raymond Bardeen. Non-metallic minerals; occurrence — preparation — utilization. New York: McGraw-Hill Book Company, Inc., 1925. viii, 686 p. diagrs. 8°. **VHT**

See p. 43–66 for brief but excellent descriptions of varieties, geographical distribution, production and consumption, mining and milling, specifications, grades, tests, markets and prices. With a bibliography.

626. **Lakes,** Arthur. The Wyoming asbestos deposits and mills. An article describing the asbestos deposits, their geology and developments thereon. illus. (Mining science, Denver, 1909, v. 60, p. 388–390.) **VHA**

627. **Lappe.** Analyse eines Asbests von Koruk, einem Arm des Pissiksarbik-Fiords in Grönland. (Annalen der Physik und Chemie, Leipzig, 1835, Bd. 35, p. 486.) **PAA**

628. [The **Laramie** Peak properties.] (Engineering and mining journal, New York, 1890, v. 50, p. 700.) **VHA**

Brief reference to properties in Albany county, Wyoming.

629. **Large** rock crusher built in Canada for the Asbestos Corporation. illus. (Canadian mining journal, Ste. Anne de Bellevue, 1919, v. 40, p. 818.) **VHA**

630. **Larochelle,** Eugene. Asbestos milling and dressing for the market. illus. (Canadian mining and metallurgical bulletin, Montreal, 1928, no. 194, p. 770–783.) **VHA**

Good article with a flow-sheet. Also in *South African mining and engineering journal,* Johannesburg, 1928, v. 39, p. 671–673, 741–743.

631. **Larsen,** Esper Signius. The microscopic determination of the nonopaque minerals. Washington: Gov. Prtg. Office, 1921. 294 p., 1 pl. diagrs., tables. 8°. (United States. — Geological Survey. Bulletin no. 679.) **PTB (U. S.)**

Cited by Peacock in his paper on the nature and origin of the amphibole-asbestos of South Africa. See entry no. 773.

632. The **Latest** style in asbestos suits. illus. (Asbestos, Philadelphia, 1922, v. 4, no. 6, p. 21.) **VHA**

Used among forest fires.

633. **Laufer,** Berthold. Asbestos and salamander. Essay in Chinese and Hellenistic folk-lore. (T'oung Pao, Leide, 1915, v. 16, p. 299–373.) *** OSA**

An excellent history of asbestos with many foot-note references.

634. **Leonhard,** Karl Caeser von. Handbuch der Oryktognosie. Heidelberg, 1821. xxx, 720 p. 8°. **PWD**

See p. 533–536 for brief references to various kinds of asbestos with bibliography of 25 titles.

635. **Leonhard,** Karl Caeser von, and others. Systematisch-tabellarische Übersicht und Charakteristik der Mineralkörper. In oryktognostischer und orologischer Hinsicht aufgestellt von C. C. Leonhard, K. F. Merz und Dr. J. H. Kopp. Frankfurt a. M.: J. C. Hermann, 1806. 125, xvi p. f°. **†† PWD**

See p. 29–31 for convenient tabular data on asbestos and asbestiform minerals.

636. **Levoir,** L. C. Artificial asbestos, or French chalk, for packing and closing leakages. (Chemical news, London, 1885, v. 51, p. 217.) **PKA**

Claims that the mineral asbestos is a poor packing material. Also in *Engineering and mining journal,* 1885, v. 40, p. 22, *VHA.*

637. **Liddell,** Donald M. Asbestos shapes. (Engineering and mining journal, New York, 1914, v. 98, p. 24.) **VHA**

Thin asbestos paper, moulded when wet, adapted to several purposes in chemical laboratories.

638. The **Life** of Christopher Huber. port. (Asbestos, Philadelphia, 1924, v. 6, no. 6, p. 10–11.) **VHA**

Obituary and portrait of the president of the Asbestos Fibre Spinning Company.

639. **Lindgren,** Waldemar. Asbestos. illus. (In his: Mineral deposits. New York, 1928. 3. ed. 8°. p. 436–440.) **PTK**

Briefly describes characteristics and origin of amphibole and chrysotile.

640. **Lindgren,** Waldemar, and W. F. Hillebrand. Minerals from the Clifton-Morenci district, Arizona. (American journal of science, New Haven, 1904, series 4, v. 18, p. 453–457.) **OA**

Describes chrysocolla and morencite.

641. **Lindsay,** C. C. Asbestos mining in the Black Lake area. (Engineering and mining journal, New York, 1921, v. 112, p. 523.) **VHA**

Reply to Wynant D. Hubbard. See entries nos. 568–569.

642. **Linné,** Carl von. A general system of nature through the three grand kingdoms of animals, vegetables, and minerals, systematically divided into their several classes, or-

ders, genera, species and varieties, with their habitations, manners, economy, structure, and peculiarities... Translated from Gmelin, Fabricius, Willdenow...by William Turton. London, 1806. 7 v. 8°. **PQD**

See v. 7, p. 66–68 for various varieties and sources. Library has several editions in Latin.

643. Liquid asbestos. (Asbestos, Philadelphia, 1928, v. 10, no. 5, p. 16, 18.) **VHA**

Heavy paste of finely powdered asbestos used for heat insulation.

644. A Little journey to Canada. (Asbestos, Philadelphia, 1920, v. 1, no. 12, p. 31, 33.) **VHA**

Brief account of editor's visit to several Canadian properties and reference to difficulties of production and shipment.

645. Little stories of success: The Asbestos Products Company. illus. (Asbestos, Philadelphia, 1925, v. 6, no. 11, p. 11–12.) **VHA**

646. Little stories of success. v: The General Equipment Co., Charlotte, N. C. port. (Asbestos, Philadelphia, 1924, v. 6, no. 3, p. 10–11.) **VHA**

Makers of Undabestos insulation for underground steam lines.

647. Liversidge, Archibald. The minerals of New South Wales, etc. London: Trübner and Company, 1888. viii, 326 p. [3. ed.] 8°. **VHF**

Cites occurrences, with one analysis.

648. Lloyd, Edward. An account of a sort of paper made of linum asbestinum found in Wales. (Philosophical transactions, Oxford, 1684, v. 14, p. 823–824.) **XEC**

649. Lohse, O. Ueber Asbestfilter. illus. (Deutsche chemische Gesellschaft, Berichte, Berlin, 1899, Jahrg. 32, Bd. 2, p. 2142–2146.) **PKA**

Abstract in *Journal of the Chemical Society,* London, 1899, v. 76, part 2, p. 801, *PKA.*

650. Lohse, O., and P. THOMASCHEWSKI. Notiz über neue Asbestfilterröhrchen. illus. (Zeitschrift für analytische Chemie, Wiesbaden, 1900, Jahrg. 39, p. 158–161.) **PKA**

Abstract in *Journal of the Chemical Society,* London, 1900, v. 78, part 2, p. 508, *PKA.*

651. Longley, J. N. The characteristics and properties of the main types of asbestos fibres. (Chemistry and industry, London, 1927, v. 46, p. 525–526.) **VOA**

Discusses chrysotile, crocidolite and hornblende from standpoints of analyses and effect of heat. Also in *India rubber journal,* London, 1927, v. 73, p. 1042–1043, † *VMV.* For a reply see letter by A. J. Dunk, entry no. 411.

652. Ludwig, Christian Friedrich. Handbuch der Mineralogie, nach A. G. Werner. Leipzig, 1803–04. 2 v. 8°. **PWD**

Occurrence and brief descriptions of mountain cork, mountain flax, common asbestos, and mountain wood.

653. Lukens, A. R., jr. Estimation of ingredients other than asbestos in asbestos paper. (Chemist-analyst, published by the J. T. Baker Company, Phillipsburg, N. J., 1918, no. 25, p. 3–7.) **3 – VOA (Baker)**

Abstracts in *India rubber journal,* London, 1918, v. 56, p. 828, † *VMV; Paper,* New York, 1918, v. 23, no. 5, p. 19–20, † *VMPA.*

654. Lynch, F. C. C. Asbestos, a Canadian specialty. illus. (Mining and scientific press, San Francisco, 1920, v. 120, p. 531–533.) **VA**

655. M., F. Berechnung des Stückgewichts von Asbestkautschuk-Ringen und -Bändern. (Gummi-Zeitung, Berlin, 1915, Jahrg. 29, p. 1139.) **†† VMA**

Formulas for determining specific weight of rings and bands.

656. M., H. Die Verarbeitung der Asbest-Faser. illus. (Gummi-Zeitung, Berlin, 1913, Jahrg. 28, p. 53–57, 93–96, 128–133, 162–165.) **†† VMA**

Well diagramed account of milling and spinning.

657. McClintock, James H. Arizona. (Engineering and mining journal, New York, 1922, v. 113, p. 185.) **VHA**

Brief reference to Asbestos Clearing House Association at Globe, Arizona.

658. McCord, W. W. Metallic asbestos gaskets. illus. (Asbestos, Philadelphia, 1921, v. 3, no. 5, p. 5–6, 8, 10, 13, 15, 17.) **VHA**

659. Machine for making asbestos sheet packing. illus. (India rubber world, New York, 1917, v. 56, p. 521.) **† VMV**

660. Machinery brake linings. (Engineering and mining journal, New York, 1911, v. 92, p. 16.) **VHA**

Tests by Professor C. L. Norton.

661. McLeish, John. The production of asbestos in Canada. (Canadian mining journal, Toronto, 1909, v. 30, p. 714–717.) **VHA**

Statistics.

662. McMillan, L. B. The heat insulating properties of commercial steam pipe coverings. illus. (American Society of Mechanical Engineers, Transactions, v. 37, 1915, p. 921–974.) **VFA**

Tabulated results of an extensive investigation.

663. Macquart. Note sur l'asbestoïde. (Société philomathique de Paris, Bulletin, Paris, 1791, tome 1, p. 117–118.) *** EN**

Analysis of asbestiform mineral found in Dauphiny.

664. Madison, Frank Hilton. Teaching asbestos to the coming generation. (Asbestos, Philadelphia, 1922, v. 4, no. 1, p. 43–44.) **VHA**

Brief account of exhibit in Field Museum of Natural History.

665. Mahudel, Nicholas. Du lin incombustible. (Académie royale des inscriptions et belles lettres, Mémoires, Paris, 1746, tome 4, p. 634–647.) *** EO**

Author, a French antiquarian, reviews ancient references to fire-proof asbestos cloth.

666. Maj.-Gen. Sir John W. Carson. port. (Asbestos, Philadelphia, 1922, v. 4, no. 6, p. 22–24.) **VHA**

Obituary of the president and general manager of Consolidated Asbestos, Limited, Montreal.

667. The **Manner** of making incombustible cloth from the stone amiantus, spun into threads. An epistolary dissertation, by J. Ciampini of Rome... illus. (Gentleman's magazine, London, 1747, v. 17, p. 534–535.) * **DA**

Review of pamphlet by Ciampini. Details of spinning. Also in *Asbestos*, Philadelphia, 1925, v. 6, no. 9, p. 10–12, 16, *VHA*.

668. The **Manufacture** of asbestos boards. (Paper maker and British paper trade journal, London, 1915–16, v. 51, International number, p. 11.) 3 – † **VMPA**

Also in *Paper*, New York, 1916, v. 19, Oct. 25, p. 17, *VMPA*.

669. The **Manufacture** of asbestos boards. (Der Papier-Fabrikant, Berlin, 1913, Jahrg. 11, Fest- und Ausland Heft, p. 87–89.)

In English and French. † **VMPA**

670. The **Manufacture** of asbestos cardboard. (Paper trade journal, New York, 1919, v. 68, no. 6, p. 333–335.) † **VMA**

671. The **Manufacture** of asbestos goods. illus. (Machinery market, London, 1924, Oct. 31, p. 17–18.) 3 – † **VFA**

Brief description of making brake linings, high pressure jointing, millboard, sectional pipe covering, and mattresses at Barking works of the Cape Asbestos Co., Ltd.

672. The **Manufacture** of asbestos roofing. (Paper, New York, 1912, v. 7, p. 19.) † **VMPA**

673. Marcuse, B. Asbestos deposits in New Zealand and Australia. (India rubber journal, London, 1920, v. 59, p. 396.) † **VMV**

Comments on report of committee of the House of Representatives.

674. —— Asbestos screen tests. (Engineering and mining journal-press, New York, 1925, v. 120, p. 982.) **VHA**

Comments on article by Melhase. See entry no. 688.

675. —— Does the percentage of high-grade asbestos vary with depth? (Engineering and mining journal-press, New York, 1923, v. 115, p. 351.) **VHA**

676. —— The marketing of asbestos. American demand largest for low-grade materials; foreign for high-grade. New York and Hamburg chief distributing centers. Competition mainly between Canadian and Rhodesian grades. illus. (Engineering and mining journal-press, New York, Aug. 12, 1922, v. 114, p. 277–279.) **VHA**

677. Marggraf, A. G. Rapport des effets de l'acide du vitriol sur diverses pierres, ou especes de terre. (Académie royale des sciences, Mémoires, Berlin, 1766, tome 15, p. 12–18.) * **EE (Prussia)**

Effect of sulphuric acid.

678. Marlin-Rockwell Corporation. Rockbestos; asbestos-covered wires and cables for every service. [New York: Marlin-Rockwell Corporation, cop. 1919.] 32 p. illus. tables. 4°. **VBA p.v.53, no.6**

679. Marloch. Asbestos in South Africa. (Engineering and mining journal, New York, 1894, v. 58, p. 272.) **VHA**

Abstract of paper read before the Philosophical Society of Cape Town.

680. Marsters, Vernon Freeman. Petrography of the amphibolite, serpentine, and associated asbestos deposits of Belvidere mountain, Vermont. illus. maps. (Geological Society of America, Bulletin, Rochester, N. Y., 1905, v. 16, p. 419–446.) **PTA**

Has an account of early knowledge of asbestos and its uses; also a brief reference to the development of the Canadian industry. Also in *Reports of the State Geologist of Vermont*, 1903–04, v. 4, p. 86–102; 1905–06, v. 5, p. 35–61, *PTB*.

681. Die **Maschinen** zur Verspinnung des Asbests. illus. (Gummi-Zeitung, Dresden, 1899. Jahrg. 14, p. 365–366, 385–387.) †† **VMA**

682. Mason, F. H. Asbestos — how it is mined, spun and used. illus. (Raw material, New York, 1923, v. 6, p. 52–55.) **VIA**

Good description of Canadian mining, but with no details of spinning methods.

683. —— Chrysotile — asbestos. (Mining and scientific press, San Francisco, 1915, v. 111, p. 774–775.) **VA**

684. Matthews, Joseph Merritt. Asbestos as a textile fiber. illus. (In his: Textile fibers, their physical, microscopical and chemical properties. New York, 1924. 4. ed. 8°. p. 24–37.) **VLB**

685. Maufe, H. B. Geological notes on the asbestos quarries, Victoria district. (In: Southern Rhodesia. — Geological Survey, Report for 1911, Salisbury, 1912, p. 38–40.) **PTB (Rhodesia, Southern)**

686. [The **Mediterranean** Asbestos Quarries, Limited.] (Asbestos, Philadelphia, 1922, v. 4, no. 6, p. 47–48.) **VHA**

Proposes to operate in Corsica.

687. Meisner, Max. Die Versorgung der Weltwirtschaft mit Bergwerkserzeugnissen. 1. 1860–1926. 2. Teil. Erze und Nichterze. Stuttgart: Ferdinand Enke, 1929. xvi, 394 p. diagrs., maps. 8°. (Weltmontanstatistik, hrsg. von der Preussischen Geologischen Landesanstalt.) **VHEA (Prussia)**

See p. 237–248 for world production statistics, also statistics for individual countries.

688. Melhase, John. Asbestos deposits of Arizona occur in four districts in Gila county. Commercial ore found along diabase intrusions in limestone. Western markets essential for full development. illus. map. (Engineering and mining journal-press, New York, 1925, v. 120, p. 805–810.) **VHA**

Describes deposits, mining methods and costs, and preparation and grading of fibers. Has chart giving prices of various grades of Quebec asbestos, 1912–1925.

689. Mennell, Frederic Philip. The mineral resources of Rhodesia. (South African journal of industries, Pretoria, 1918, v. 1, p. 1411–1417.) **TLA**

Asbestos, p. 1411–1412.

690. Merger of asbestos companies in Quebec seems probable. Details of finance being developed. Efforts in past have failed. Rhodesian competition. (Engineering and mining journal-press, New York, 1924, v. 118, p. 987.) **VHA**

691. Merger of Quebec asbestos mining companies probable. Asbestos Corporation of Canada makes offer to absorb five producers. A $25,000,000 corporation proposed. Centralized control desirable. (Engineering and mining journal-press, New York, 1923, v. 116, p. 735.) **VHA**

692. Merrill, George Perkins. The nonmetallic minerals; their occurrence and uses. New York: John Wiley and Sons, 1910. xii, 432 p., 2 maps, 36 pl. illus. 2. ed. 8°. **VHT**

See p. 183–197. Analyses of samples from various parts of the world. Formulas for pipe coverings.

693. —— Notes on asbestos and asbestiform minerals. (United States National Museum, Proceedings, Washington, 1896, v. 18, 1895, p. 281–292.) ***EA**

An attempt to classify the asbestos collection of the United States National Museum, with analyses by the author and R. L. Packard. Various American specimens are described. The authors believe that "a very considerable proportion of the mineral in commercial use, and labeled as asbestos in mineral cabinets, is in reality anthophyllite."

Abstract in *Journal of the Chemical Society,* London, 1897, v. 72, part 2, p. 412, *PKA.*

694. —— On the origin of veins in asbestiform serpentine. illus. (Geological Society of America, Bulletin, Rochester, N. Y., 1905, v. 16, p. 131–136.) **PTA**

695. Mett, Fred A. Amphibole — or the slip fibre varieties of asbestos. illus. (Asbestos, Philadelphia, 1920, v. 1, February, p. 10–12.) **VHA**

Describes preparation of filter pads for use in Gooch crucibles.

696. —— Gooch filters with asbestos pads. (Asbestos, Philadelphia, 1927, v. 9, no. 4, p. 42–43.) **VHA**

697. Meville, George R. Asbestos, the rock of the ages. illus. (Michigan technique, Ann Arbor, 1923, v. 36, Jan., p. 11–12.) **VDA**

Brief general article.

698. Mica and asbestos deposits in New York City. (Engineering and mining journal, New York, 1888, v. 46, p. 439.) **VHA**

699. Micksch, Karl. Künstlicher Asbest. (Kunststoffe, München, 1924, Jahrg. 14, p. 78.) **VA**

Several recipes for plastic masses; also reference to Australian basalt process of making artificial asbestos. Translation in *India rubber journal,* London, 1924, v. 67, p. 1036, † *VMV.*

700. Micro-asbestos. illus. (Asbestos, Philadelphia, 1928, v. 9, no. 9, March, p. 25, 27.) **VHA**

Analysis of asbestine found in Austria.

701. Mikroasbest als Werkstoff. illus. diagrs. (Umschau, Frankfurt a. M., 1927, Jahrg. 31, p. 914–919.) **OA**

Brief account of properties and use of mineral found at Rechnitz, Austria.

702. Miller, E. E. Asbestos in Arizona. (Mining American, New York, 1917, v. 74, Feb. 10, p. 7.) **VHA**

703. Milling asbestos in Arizona. (Asbestos, Philadelphia, 1929, v. 10, no. 9, p. 16, 18.) **VHA**

Briefly describes methods at the Regal mine.

704. Milling practice. (Asbestos, Philadelphia, 1928, v. 9, no. 12, p. 25, 27–28, 30–32.)

Compares practices in various countries. **VHA**

705. Mine operators adopt new grade standards. (Asbestos, Philadelphia, 1921, v. 3, no. 4, p. 39.) **VHA**

706. The **Mineral** industry, its statistics, technology and trade. v. 1–35 (1892–1926). New York: McGraw-Hill Book Company, Inc., 1893–1927. 8°. **VH**

An annual volume with a section on asbestos in the producing areas of the world.

707. Mining at the Boston Exhibition. (Engineering and mining journal, New York, 1883, v. 36, p. 277–278.) **VHA**

Brief reference to exhibit of the H. W. Johns Manufacturing Co.

708. Mining at the Columbian Exposition. illus. (Engineering and mining journal, New York, 1893, v. 55, p. 509–510.) **VHA**

See p. 510 for account of exhibit of the Sall Mountain Asbestos Company, of Blue Ridge, Georgia.

709. The **Mining** year book, with which is incorporated The mining manual. A record of information concerning mining companies arranged in alphabetical order, preceded by tables of annual yields and gold outputs and a dictionary of mining terms and followed by lists of directors, mining and consulting engineers, mine managers and agents, their names and addresses, and names of the companies with which they are connected. Edited by Walter E. Skinner. v. [1], 3, 8, 19, 27, 29–31, 34–43 (1887, 1889/90, 1896, 1905, 1913, 1915–17, 1920–29). London, 1887–1929. 8°.

Desk — Room 118 and 3 – VH

Covers principally British interests.

710. Misconceptions of asbestos. (Asbestos, Philadelphia, 1922, v. 3, no. 8, p. 18, 20, 22.) **VHA**

Comparison of Canadian and Italian varieties; the effects of heat.

711. Misconceptions about blue asbestos. A correspondent suggests that organized mining and milling, in the Cape field at all events,

are impracticable. The output of high-grade fibre is scarcely likely to increase. (South African mining and engineering journal, Johannesburg, 1928, v. 38, part 2, p. 589.)
For reply see entry no. 992. †† VHA

712. **Moellmann,** W. Der Asbest, mit besonderer Berücksichtigung der canadischen Asbest-Industrie. (Berg- und huettenmaennische Zeitung, Leipzig, 1902, Jahrg. 61, p. 345–348.) VHA

713. —— Asbestos and its production in Canada. (India rubber journal, London, 1902, v. 24, p. 121–122, 167–168.) † VMV
Mining methods briefly described.

714. —— Jüngste Entdeckungen von Asbest in Californien. (Berg- und huettenmaennische Zeitung, Leipzig, 1902, Jahrg. 61, p. 601–602.) VHA
Describes deposit near Stockton, California.

715. **Mohs,** Friedrich. Des Herrn Jac. Friedr. von der Null Mineralien-Kabinet... Wien: In Commission der Camesinaischen Buchhandlung, 1804. 3 v. in 2. 8°. PWH
Briefly describes specimens in the collection.

716. —— Grund-Riss der Mineralogie. Dresden, 1822–24. 2 v. 8°. PWD
Brief reference to asbestos, Theil 2, p. 318–319.

717. **Molengraaff,** G. A. F. Note on some rock specimens exhibited at the meeting of the Geological Society of South Africa in February, 1905. (Geological Society of South Africa, Transactions, Johannesburg, 1905, v. 8, p. 63–65.) PTA
Describes crocidolite from the Lower Pretoria beds.

718. **Monkhouse,** Allan. Electrical insulating materials; a complete treatise on the preparation, properties, and characteristics of the materials used for electrical insulation, with a full description of the methods of testing. London and New York: Sir Isaac Pitman and Sons, Ltd., 1926. xvi, 392 p. illus. 8°. VGM
See p. 188–196 for comparative characteristics of amphibole and serpentine varieties, and the use of asbestos for asbestos paper, fabrics, synthetic varnish-asbestos products, non-ignitible and self-extinguishing boards, and magnet wire coverings. Has a list of products and trade names of materials dealt with as asbestos products.

719. **Montet.** Mémoire sur le Suber montanum qui se trouve au-dessus & au-dessous du chemin qui va à la paroisse de Mandagout & au Vigan, dans le diocèse d'Alais, & sur plusieurs autres faits d'histoire naturelle & de chimie. illus. (Académie royale des sciences, Mémoires, Paris, 1764, année 1762, p. 632–661.) * EO

720. —— Troisième mémoire sur plusieurs sujets d'histoire naturelle et de chimie. (Académie royale des sciences, Mémoires, 1777, Paris, 1780, p. 640–664.) * EO
Describes asbestos-like mineral found in the neighborhood of Montagne de l'Esperou, near Montpellier, France.

721. **Moore,** Nathaniel Fish. Ancient mineralogy; or, An inquiry respecting mineral substances mentioned by the ancients, with occasional remarks on the uses to which they were applied. New York: G. & C. Carvill & Co., 1834. 192 p. 12°. PW
See p. 110–113.

722. **Moret,** Léon. Enquête critique sur les resources minérales de la province de Savoie, précédée d'une esquisse géologique. Chambéry: Librairie Dardel [1925?]. 201 p. illus. 8°. VHE
Occurrences described, p. 172–175.

723. **Morrison,** R., jr. A plea for the asbestos producer. (Engineering and mining journal, New York, 1927, v. 124, p. 342.) † VHA
In favor of a protective tariff.

724. **Mortimer-Lamb,** H. The present condition of the asbestos industry in Canada. (Canadian mining journal, Toronto, 1912, v. 33, p. 457–458.) VHA

725. **Moving** pictures shown of sulphur and asbestos mining and steel manufacture. (Engineering and mining journal, New York, 1921, v. 111, p. 348.) VHA

726. **Murray,** W. Asbest unter einem Schmelzofen. (Neues Jahrbuch für Mineralogie, Stuttgart, 1846, Jahrg. 1846, p. 839.) PWA
Asbestos deposit which formed in bottom of furnace, with analysis.

727. **Natal** Asbestos Limited. Prospectus. (Asbestos, Philadelphia, 1922, v. 4, no. 4, p. 32, 34.) VHA
Resumé of the prospectus.

728. **Nebel.** Observation sur l'asbeste. (Journal de physique, Paris, July, 1773, p. 62.) 3 – OA
Discusses a sample found in the principality of Hesse.

729. **Needham,** Turberville. An account of a late discovery of asbestos in France. (Royal Society of London, Philosophical transactions for 1760, London, 1761, v. 51, part 2, p. 837–838.) * EC
States that asbestos "is nothing more...than calcined iron, deprived of the phlogistic."

730. **Nelson,** Caroline. Asbestos in Arizona. illus. (Asbestos, Philadelphia, v. 4, Jan., p. 12–14, 16–20, 21.) VLA

731. **New** Amianthus Mines, Ltd. illus. (South African mining and engineering year book, 1927, Johannesburg, 1927, p. 130–131.) † VHF

732. A **New** application of asbestos. (Engineering and mining journal, New York, 1900, v. 70, p. 669.) VHA
Strange effect on eggs of asbestos siftings added to the hen's food.

733. **New** asbestos cement products. illus. (Building, London, April, 1927, v. 2, p. 186.) † VEA

Tile, glazed sheets, and imitation marble manufactured by Turner Brothers Asbestos Co., Ltd.

734. A **New** asbestos discovery near Barberton, Transvaal. Deposits of pure white chrysotile occurring in regular arrangement. Location is close to tidewater. (Engineering and mining journal-press, New York, 1922, v. 113, p. 524.) VHA

Analyses compared with those of Canada.

735. A **New** asbestos-metallic steam packing. (Engineering and mining journal, New York, 1888, v. 46, p. 46.) VHA

The body of the packing is of asbestos yarn, plaited around the tubes by special machinery, which at the same time threads asbestos fiber through the tubes.

736. The **New** asbestos theatre curtain. (Asbestos, Philadelphia, 1924, v. 5, no. 7, p. 40.) VHA

Three tests by the U. S. Bureau of Standards.

737. A **New** asbestos venture. illus. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 698.) †† VHA

Property of the Chrysotile Asbestos Company, Ltd., in the Belfast district, near Dullstroom, South Africa.

738. **New** company opens asbestos mine at Kamiah, Ida. (Engineering and mining journal-press, New York, 1924, v. 117.) VHA

Panhandle Asbestos Mining Company.

739. A **New** departure in the asbestos industry. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 20, 22.) VHA

Formation of Asbestos, Ltd., with American capital and personnel. Intends to import and fiberize blue crudes.

740. The **New** field discovered and preempted by blue asbestos mattress coverings. (Asbestos, Philadelphia, 1923, v. 4, no. 7, p. 30, 33.) VHA

Use of mats permitted by insurance companies on sulphite digestors. Brief resumé of tests.

741. The **New** Gloria Asbestos and Asbestic Mine, Ltd. (Asbestos, Philadelphia, 1923, v. 4. no. 8, p. 40.) VHA

Brief notice of property in the Transvaal. Product used for making cement.

742. A **New** joint-making material. (Scientific American, New York, 1889, v. 61, p. 96.) VHA

Asbestos mixed with white lead. See also *Engineering and mining journal*, New York, 1889, v. 48, p. 208, *VHA*.

743. **New** markets possible for Canadian asbestos. (Engineering and mining journal-press, New York, 1925, v. 120, p. 1015.) VHA

Use in brake-linings, competing with South African fibers.

744. **New** move in merger of Canadian asbestos companies. (Engineering and mining journal-press, New York, 1925, v. 120, p. 504.) VHA

745. **New** refractory material. (Engineering and mining journal, New York, 1896, v. 61, p. 474.) VHA

Invention of Sternberg and Delettre using clay and asbestos.

746. A **New** source of asbestos. (India rubber journal, London, 1913, v. 45, p. 274.) † VMV

Mineral resembling pilolite found in China.

747. A **New** use for asbestos. (Engineering and mining journal, New York, 1885, v. 40, p. 276.) VHA

Asbestos cloth or rope used for supporting fabrics after dyeing or printing.

748. **New** use for asbestos waste. (Chemical age, London, Jan. 8, 1927, v. 16, p. 43.) VOA

Suggested use as fertilizer.

749. A **New** yarn — 100% asbestos. (Asbestos, Philadelphia, 1924, v. 5, no. 7, p. 20.) VHA

Made by the Worldbestos Corporation, New York City.

750. **Nicholls**, P. The screen test and prices. (Asbestos, Philadelphia, 1920, v. 1, no. 7, p. 12, 14–15.) VHA

751. —— Warm air furnace insulation. illus. (Asbestos, Philadelphia, 1920, v. 2, no. 3, p. 5–8, 10, 13.) VHA

Recommends the asbestos air cell on tin pipes.

752. **Nieszytka-Norman**, Th. Ueber die Verwendung von Asbest, insbesondere der faserlosen Arten, in der Technik. (Gummi-Zeitung, Berlin, 1913, Jahrg. 28, p. 412–413, 455–456.) †† VMA

Indicates the composition of a large number of asbestos compositions. Unusually large list of uses of asbestos, especially of amphibole variety.

753. **Noble**, Levi F. Contributions to the geology of the Grand Canyon, Arizona — the geology of the Shinumo area. map. (American journal of science, New Haven, 1910, series 4, v. 29, p. 369–386, 497–528.) OA

See p. 521 for results of microscopic study of rocks associated with asbestos.

754. **Norton**, Charles Ladd. The manufacture and use of asbestos wood. (Congress of Technology, Boston, 1911. Technology and industrial efficiency. New York, 1911. 8°. p. 375–379.) VBA

755. —— New fire retardant. (Insurance engineering, New York, April, 1907, v. 13, p. 322–331.) SIC

Tests on asbestos wood.

756. **Note** sur la filature de l'amiante, par Madame Lena Perpenti; traduite de l'italien. (Société d'encouragement pour l'industrie nationale, Bulletin, Paris, 1813, année 12, p. 166–168.) VA

757. **Notes** from Russia. (Asbestos, Philadelphia, 1923, v. 5, no. 4, p. 20.) **VHA**
Notes concerning the Uralasbest Company.

758. **Numbering** of asbestos yarns. (Asbestos, Philadelphia, 1920, v. 1, no. 11, p. 24.) **VHA**

759. **Nummerierung** der Asbestgarne. (Gummi-Zeitung, Berlin, 1920, Jahrg. 34, p. 372.) †† **VMA**

760. **Nusselt,** Wilhelm. Die Wärmeleitfähigkeit von Wärmeisolierstoffen. illus. (Verein deutscher Ingenieure, Zeitschrift, Berlin, 1908, Bd. 52, p. 906–912, 1003–1006.) **VDA**
See p. 1004, 1006 for tests on asbestos. Abstracted in *Engineering*, London, 1909, v. 87, p. 1, *VDA*.

761. **Nuttall,** Thomas. Observations on the serpentine rocks of Hoboken, in New Jersey, and on the minerals which they contain. (American journal of science, New Haven, 1822, v. 4, p. 16–23.) **OA**
Briefly describes *nemalite*, a fibrous mineral soluble in acids without effervescence.

762. **Obst,** Walter. Ueber einige Verwendungsvorzüge des Mikroasbestes. (Zement, Charlottenburg, 1928, Jahrg. 17, p. 1116–1117.) † **VEA**

763. **Oels,** Martin. Beiträge zur Kenntnis einiger Gesteine und Asbeste (orsikas). Erlangen: Fr. Junge, 1890. 26 p. 12°. **PWL p.v.2, no.8**
Abstract in *Journal of the Chemical Society*, London, 1897, v. 72, part 2, p. 53, *PKA*.

764. **Olds,** H. F. Notes on blue asbestos. (Institution of Mining and Metallurgy, Transactions, London, 1899, v. 7, p. 122–123.) **VHA**
Analysis and characteristics of asbestos found in Griqualand West, with results of tests as a pipe covering. See also *Engineering and mining journal*, New York, 1899, v. 67, p. 528, *VHA; Journal of the Society of Chemical Industry*, London, 1899, v. 18, p. 266, *VOA*.

765. **Ordway,** John M. Non-conductors for steam pipes. (Engineering and mining journal, New York, 1890, v. 50, p. 650.) † **VHA**
Compares various substances.

766. **Organization** of Asbestos Industries. (Asbestos, Philadelphia, 1921, v. 2, no. 8, p. 38.) **VHA**
Purposes and list of officers of the association.

767. **Over-capitalisation** in the asbestos industry? Flood of new companies. Is too much paper being created? (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 389.) †† **VHA**
Abstracted in *Asbestos*, Philadelphia, 1928, v. 10, no. 1, p. 27, *VHA*.

768. [**Pacific** Asbestos Corporation.] (Asbestos, Philadelphia, 1922, v. 3, no. 11, p. 53–54.) **VHA**

769. **Palache,** Charles. Some problems of mineral genesis in South Africa. (American mineralogist, Menasha, Wis., 1922, v. 7, p. 37–45.) **PWA**
See p. 44.

770. **Paper** and millboard standards. (Asbestos, Philadelphia, 1924, v. 5, no. 12, p. 32.) **VHA**
Standards recommended at a meeting under auspices of the Division of Simplified Practice, Department of Commerce.

771. **Parlett,** H. G. Discovery of asbestos deposit. (India rubber journal, London, 1912, v. 43, p. 24.) † **VMV**
Mount Sansom, near Chinchow, China.

772. The **Passing** of another asbestos veteran. (Asbestos, Philadelphia, 1924, v. 6, no. 5, p. 10, 12.) **VHA**
Short notice of Thomas Henry Crabtree.

773. **Peacock,** Martin A. The nature and origin of the amphibole-asbestos of South Africa. tables. (American mineralogist, Menasha, Wis., 1928, v. 13, p. 241–285.) **PWA**
Bibliography, p. 283–285.

774. **Pearson,** J. R., and L. R. **Hoff.** Asbestos and its uses. (Canadian Society of Civil Engineers, Transactions, Montreal, 1912, v. 26, p. 141–255.) **VDA**
Difficulties of spinning due to lack of microscopic barbs. Abstracted in *Mining science*, Denver, 1912, v. 66, p. 313–314, *VHA*.

775. **Penfield,** S. L. Anthophyllite from Franklin, Macon Co., N. C. (American journal of science, New Haven, 1890, series 3, v. 40, p. 394–397.) **OA**
Cited by Peacock in his paper on origin of the amphibole-asbestos of South Africa. See entry no. 773.

776. **Penfield,** S. L., and F. C. **Stanley.** On the chemical composition of amphibole. (American journal of science, New Haven, 1907, series 4, v. 23, p. 23–51.) **OA**
Cited by Peacock in his paper on origin of the amphibole-asbestos of South Africa. See entry no. 773.

777. **Penhale,** Matthew. The Danville asbestos mine, Canada. (Engineering and mining journal, New York, 1895, v. 60, p. 416.) **VHA**
Describes mill.

778. **Perkins,** Frank C. Mining asbestos in Vermont. illus. (Mining world, Chicago, 1910, v. 32, p. 559.) **VHA**

779. **Perry,** E. Asbestos roofing cement. Colors for asbestos cements. (Oil, paint and drug reporter, New York, Oct. 20, 1924, v. 106, p. 20.) **VHA**
Gives formulas.

780. The **Philadelphia** New Method Moulding and Metals Corporation. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 32, 34.) **VHA**
Describes company's exhibition of amphibole asbestos.

781. **Philadelphia's** new code for theatre curtains. (Asbestos, Philadelphia, 1927, v. 9, no. 3, Sept., p. 20, 22.) **VHA**

782. The **Philip Carey Company.** Heat insulation for temperatures 500° F. to 1200° F. Bulletin 101A. Cincinnati, 1927. 24 p. illus. 4°. **VHT n.c.4**

783. Phillips, William. An elementary introduction to the knowledge of mineralogy; comprising some account of the characters and elements of minerals; explanations of terms in common use; descriptions of minerals, with accounts of the places and circumstances in which they are found; and especially the localities of British minerals. London, 1823. cxx, 406 p. illus. 3. ed., enl. 12°. **PWE**

See p. 71–73 for brief accounts of amianthus, common asbestos, mountain leather, mountain cork, and mountain wood.

783a. – — —— New edition with extensive alterations and additions. London, 1852. xi, 700 p. 12°. **PWE**

See p. 300–302.

784. Pietersburg asbestos deposits to be exploited by strong company. Extensive resources in two varieties indicated. The value of the amosite types. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 112.) **†† VHA**

785. Plan revival of Russian asbestos industry. (Engineering and mining journal, New York, 1928, v. 125, p. 535.) **† VHA**

786. Plant of the Dominion Asbestos Fibre Company. illus. (Engineering and mining journal, New York, 1910, v. 89, p. 663.) **VHA**

787. Plattendichtungen. (Gummi-Zeitung, Berlin, 1915, Jahrg. 29, p. 483, 508, 565.) **†† VMA**

Discusses efficiency of asbestos-rubber sheets as waterproofing.

788. Pliny, the elder. The natural history of Pliny. Translated with copious notes and illustrations by the late John Bostock and H. T. Riley. London: H. G. Bohn, 1855–57. 6 v. 12°. (Bohn's classical library.) *** R – PQC**

See v. 4, p. 136–137 for asbestos linen; also v. 6, p. 308 for use of asbestos in counteracting "all noxious spells, those wrought by magicians in particular."

Library has other editions in Latin, English, and French.

789. Plot, Robert. A discourse concerning the incombustible cloth above mentioned; addres't in a letter to Mr. Arthur Bayly merchant, and Fellow of the R. Society; and to Mr. Nicholas Waite, merchant of London. (Royal Society of London, Philosophical transactions, Oxford, 1685, no. 172, p. 1051–1062.) *** EC**

Interesting historical paper with numerous footnote references to use of asbestos in ancient and mediaeval times.

789a. Polo, Marco. The book of Ser Marco Polo, the Venetian, concerning the kingdoms and marvels of the East; translated and edited, with notes, by Colonel Sir Henry Yule ... London: John Murray, 1903. 2 v. 3. ed. rev. illus. 8°. **BBE**

See v. 1, p. 213–213 for account of incombustible "salamander" cloth and its manufacture; also editorial notes, p. 216–217.

790. Pontoppidan, Erik. The natural history of Norway: containing a particular and accurate account of the temperature of the air, the different soils, waters, vegetables, metals, minerals, stones, beasts, birds, and fishes; together with the dispositions, customs, and manner of living of the inhabitants: interspersed with physiological notes from eminent writers, and transactions of academies ... Translated from the Danish original... London: Printed for A. Linde, 1755. xxiii, 206, vii, 291 p. illus. f°. **†† PQP**

See part 1, p. 168–169 for brief description on making "stone silk."

791. Pott, Johann Heinrich. Continuation de la lithogéognosie pyrotechnique, où l'on traite plus particuliérement de la connoissance des terres & des pierres, & de la maniere d'en faire l'examen. Paris: Chez Jean-Thomas Hérissant, 1753. 267(1) p., 2 l. 12°. **PWR**

See p. 41, 181–186 for discussion of fusibility of asbestos.

792. Powminco asbestos filter fibre, the only completely fiberized asbestos. Woodlawn, Baltimore, Md.: Powhatan Mining Co. [1920?] 10 p. narrow 8°. **Vert. file, Room 119**

Actinolite prepared for Gooch filters.

793. Prasco high temperature insulation — its history. (Asbestos, Philadelphia, 1925, v. 6, no. 12, p. 16–17.) **VHA**

794. Premier Asbestos Mines of South Africa, Ltd. Prospectus. (South African mining and engineering journal, Johannesburg, 1928, v. 39, part 1, p. 574–577.) **†† VHA**

795. Preservation of firemen against fire and flame. (American journal of science and arts, New Haven, 1830, v. 18, p. 177–179.) **OA**

Asbestos clothing introduced by Giovanni Aldini, who "has succeeded, it appears, in preparing [asbestos] in such a manner that it may be spun and woven without an intermixture of cotton or other fibre."

796. Prices of Canadian crude and fibre. (Asbestos, Philadelphia, 1922, v. 3, no. 8, p. 8.)

Chart for 1920 and 1921. **VHA**

797. Production of asbestos in 1925. (Canadian mining journal, Gardenvale, Que., 1926, v. 47, p. 688.) **VHA**

Canadian statistics.

798. Progress in amosite. (Asbestos, Philadelphia, 1929, v. 10, no. 10, p. 4.) **VHA**

Brief reference to "capisolite," an Italian insulating material for boiler coverings.

799. Progress in developing amphibole. (Asbestos, Philadelphia, 1926, v. 8, Nov., p. 22, 24.) **VHA**

Plant and product of Hollywood Asbestos Mines, Hollywood, Ga.

800. A Promising Pietersburg asbestos flotation. (South African mining and engineering journal, Johannesburg, 1920, v. 30, part 1, p. 43–44.) **VHA**

801. The Proposed asbestos merger. (Canadian mining journal, Gardenvale, 1923, v. 44, p. 836–837.) **VHA**

Editorial comment.

802. Protection for asbestos? (Engineering and mining journal, New York, 1927, v. 124, p. 442–443.) †**VHA**

Editorial combats the idea.

803. Pruefung von Asbestpappen. (Gummi-Zeitung, Dresden, 1902, Jahrg. 16, p. 279.) ††**VMA**

804. Pryce-Williams, A. G. Development and growth of the Rhodesian asbestos industry. map. (Asbestos, Philadelphia, 1923, v. 4, no. 9, p. 12, 14.) **VHA**

805. Purifying asbestos of iron compounds. (Asbestos, Philadelphia, 1921, v. 3, no. 5, p. 62.) **VHA**

806. Quality of crude asbestos. (Asbestos, Philadelphia, 1923, v. 4, no. 10, p. 21–22.) **VHA**

States that Arizona crudes when properly prepared are superior to those of Canada.

807. Quebec. Asbestos mining still dull. (Engineering and mining journal-press, New York, 1922, v. 114, p. 826.) **VHA**

808. Quebec asbestos industry still thriving. Contract system has offset labor scarcity. (Engineering and mining journal, New York, 1920, v. 110, p. 376.) **VHA**

809. Quenstedt, Friedrich August von. Handbuch der Mineralogie. Tübingen: H. Lapp, 1877. viii, 997 p. 3. ed. 8°. **PWD**

See p. 300 and 331–333 for brief histories and descriptions of the chief varieties.

810. Raimondi, Antonio. ...El Perú. Tomo 1–6, fasc. 1. Lima, 1874–1913. illus. 4°. †**HHY**

See tomo 4, p. 148–153 for descriptions of Peruvian amphiboles.

811. Rammelsberg, Carl Friedrich August. Handbuch der Mineralchemie. Leipzig, 1875. vi, 136, xiv, 744 p. 2. ed. 8°. **PNB**

See p. 400–402 for 19 analyses from various sources. Library also has 1. ed., Leipzig, 1860, *3 – PNB.*

812. —— Ueber die krystallographischen und chemischen Beziehungen von Augite und Hornblende, sowie von verwandten Mineralien. (Annalen der Physik und Chemie, Leipzig, 1858, Bd. 103, p. 273–311.) **PAA**

Gives analyses of tremolite from St. Gotthard, Sweden, St. Lawrence county, New York, Greenland, Zillerthal, and Norway.

813. Randolph, C. P. The thermal resistivity of insulating materials. illus. (American Electrochemical Society, Transactions, v. 21, 1912, p. 545–555.) **PKA**

See p. 550 for results of tests on asbestos at laboratory of the General Electric Company.

814. Raybestos in Canada. (Asbestos, Philadelphia, 1921, v. 2, no. 7, p. 44.) **VHA**

815. The Recent asbestos merger. (Canadian mining journal, Toronto, 1909, v. 30, p. 273–275.) **VHA**

Board of directors, list of subsidiaries of the Amalgamated Asbestos Corporation, Ltd., and statistics of production of asbestos and asbestic, 1880–1908.

816. Reid, Alexander McIntosh. ...Asbestos in the Beaconsfield district... Tasmania: T. G. Prior, 1919. 31 p. illus. 8°. (Tasmania. — Geological Survey. Geological Survey report no. 8.) **VHFA (Tasmania)**

Abstracted in *Engineering and mining journal,* New York, 1920, v. 110, p. 326, *VHA.*

817. Reidemeister, C. Ueber sogenannten Asbest. (Gummi-Zeitung, Dresden, 1900, Jahrg. 15, p. 70.) ††**VMA**

Argues that chrysotile is not a true asbestos.

818. Reifsneider, L. B. Amphibole asbestos deposits at Hollywood, Ga.; their development and treatment. Important domestic supply may result. James wet process makes superior product. (Engineering and mining journal-press, New York, 1925, v. 119, p. 606–608.) **VHA**

Describes James process.

819. Remarkable growth and development of a New England enterprise. The Standard Woven Fabric Company. illus. (Accessory and garage journal, Pawtucket, R. I., 1916, v. 6, no. 2, p. 25–29.) **TOL**

820. Renard, Alphonse Franc, and C. KLEMENT. Sur la composition chimique de la krokydolite et sur le quartz fibreux du Cap. (Académie royale des sciences de Belgique, Bulletins, Bruxelles, 1884, série 3, tome 8, partie 2, p. 530–550.) ***EM**

821. René Pothier Doucet. port. (Asbestos, Philadelphia, 1922, v. 4, no. 4, p. 14.) **VHA**

Brief biography of the general manager of the Asbestos Corporation of Canada.

822. Report on China's asbestos industry. tables. (Asbestos, Philadelphia, 1925, v. 7, August, p. 27.) **VHA**

823. Report upon Devitt's asbestos claims, Selukwe district. (In: Southern Rhodesia. — Geological Survey, Bulletin no. 13, Salisbury, 1928, p. 39–46.) **PTB**

824. Report on discovery of asbestos in Australia. (Cement, mill and quarry, Chicago, 1921, v. 18, Jan. 5, p. 33–36.) **VEO**

825. Research and the asbestos industry. (Asbestos, Philadelphia, 1922, v. 4, no. 6, p. 29.) **VHA**

Pleas for cooperation among the producers.

826. Reuss, August Emmanuel. Fragmente zur Entwickelungsgeschichte der Mineralien. (Akademie der Wissenschaften, Sitzungsberichte, Mathematisch-naturwissenschaftliche Classe, Wien, 1857, Jahrg. 1856, Bd. 22, p. 129–210.) ***EF**

See p. 188–189 for description of fibrous calcite resembling mountain leather and mountain cork.

827. Reuss, Franz Ambrosius. Lehrbuch der Mineralogie, nach des Herrn O. B. R. Karsten mineralogischen Tabellen, ausgeführt von F. A. Reuss. Theil 1–4. Leipzig: F. G. Jacobaer, 1801–06. 4 v. in 8. 12°. **PWD**

See especially Theil 2, Bd. 2, p. 239–255 for mountain cork, amianthus, common asbestos, and mountain wood. See index in last volume for other varieties.

828. [**Rhodesian** asbestos.] illus. (South African mining and engineering year book, 1922–28, Johannesburg, 1922–28.) **† VHF**

Has interesting information concerning production, with activities of various companies.

829. Rhodesian and General Asbestos Corporation, Ltd. illus. (South African mining and engineering year book, 1928, Johannesburg, 1928, p. 347, 350–351.) **† VHF**

Report for the year ending March 31, 1927.

830. Rhodesian notes. (Asbestos, Philadelphia, 1921, v. 2, no. 7, p. 42, 44.) **VHA**

831. A Rich asbestos find. (Society of Chemical Industry, Journal, London, 1919, v. 38, p. 25a.) **VOA**

Brief reference to deposit at Lake Frontier, Montmagny county, Quebec.

832. Richard V. Mattison, jr. port. (Asbestos, Philadelphia, 1927, v. 8, no. 12, June, p. 3–4.) **VHA**

Obituary notice.

833. Richard V. Mattison, M. D., a few facts concerning his life. port. (Asbestos, Philadelphia, 1919, v. 1, no. 6, p. 8–10.) **VHA**

Dr. Mattison introduced the manufacture of asbestos cement shingles into the U. S.

834. Richards, Gragg. Veins with fibrous quartz and chlorite from the vicinity of Providence, Rhode Island. (American mineralogist, 1925, v. 10, p. 429–433.) **PWA**

Cited in Peacock's paper on the nature and origin of the amphibole asbestos of South Africa. See entry no. 774.

835. Richardson, Charles Henry. The asbestos deposits of the New England states. (Canadian Mining Institute, Quarterly bulletin, Montreal, 1911, no. 13, p. 59–69.) **VHA**

836. —— Asbestos in Vermont. illus. map. (Vermont — State Geologist, Seventh report, 1909–10, Bellows Falls, 1910, p. 315–330.) **PTB (Vermont)**

837. Richthofen, Ferdinand, Freiherr von. Über die Bildung und Umbildung einiger Mineralien in Süd-Tirol. (Akademie der Wissenschaften, Sitzungsberichte. Mathematisch-naturwissenschaftliche Classe, Wien, 1858. Jahrg. 1857, Bd. 27, p. 293–374.) ***EF**

See p. 343 for discussion of augite-asbestos transformation.

838. Robert F. Coope, another old timer in the insulation field. port. (Asbestos, Philadelphia, 1921, v. 2, no. 7, p. 33, 35.) **VHA**

[illegible]

839. Robinson, J. Albert. Asbestos protected metal. [By J. A. Robinson.] Boston [1909]. 8 p. 8°. (Underwriters' Bureau of New England. Reports. no. 127.) **SXA**

840. Rogers, Arthur William. Geological survey of parts of Bechuanaland and Griqualand West. (Cape of Good Hope. — Geological Commission. Eleventh annual report, 1906, Cape Town, 1907, p. 9–85.) **PTB (Cape of Good Hope)**

841. —— Geological survey of parts of Hay and Prieska, with some notes on Herbert and Barkly West. illus. (Cape of Good Hope. — Geological Commission, Tenth annual report, 1905, Cape Town, 1906, p. 143–204.) **PTB (Cape of Good Hope)**

See p. 164–167 for description of Asbestos mountains.

842. —— Geological survey of parts of Vryburg, Kuruman, Hay, and Gordonia. illus. (Cape of Good Hope. — Geological Commission, Twelfth annual report, 1907, Cape Town, 1908, p. 11–157.) **PTB (Cape of Good Hope)**

843. Rogers, Arthur William, and A. L. Du Toit. Report on the geology of parts of Prieska, Hay, Britstown, Carnarvon, and Victoria West. illus. (In: Cape of Good Hope. — Geological Commission, Thirteenth annual report, 1908, Cape Town, 1909, p. 9–109.) **PTB (Cape of Good Hope)**

See index.

844. Rogers, Arthur William, and Ernest H. L. Schwarz. Geology of the Orange river valley in the Hope Town and Prieska districts. (Cape of Good Hope. — Geological Commission, Annual report, 1899, Cape Town, 1900, p. 67–97.) **PTB (Cape of Good Hope)**

845. Rogers, Fred E. Asbestos in the oxy-acetylene field. illus. (Asbestos, Philadelphia, 1920, v. 1, no. 11, p. 5–8, 10, 13–15.) **VHA**

Asbestos paper for protecting parts while welding; sheet asbestos when cutting steel and decarbonizing motor car cylinders; asbestos in oxygen cylinders; in acetylene cylinders; asbestos packing.

846. Roman exhibition of asbestos. (Engineering and mining journal, New York, 1876, v. 22, p. 141.) **† VHA**

States that the Marquis of Batrera has re-discovered the art of making asbestos cloth.

847. Rosenbaum, Gerhard. The European asbestos shingle industry. (Asbestos, Philadelphia, 1927, v. 8, no. 9, March, p. 30, 32.) **VHA**

848. —— The mysteries of chrysotile. (Asbestos, Philadelphia, 1928, v. 9, no. 7, Jan., p. 24, 26, 28.) **VHA**

Discussion regarding origin.

849. Rosenbusch, Harry. Mikroskopische Physiographie der petrographisch wichtigen Mineralien. Begründet von H. Rosenbusch ... Fünfte völlig umgestaltete Auflage von Dr. E. A. Wülfing. Bd. 1, Hälfte 1–2. Stutt-

gart: E. Schweizerbart, 1921–27. 2 v. 4°. **PWH**

Bd. 1, Hälfte 2 (Spezieller Teil) by Dr. O. Mügge contains analyses and characteristics of the monocline amphibole group, p. 508–554, with 179 references.

850. Ross, James Gordon. The asbestos industry. (Canadian Institute of Mining and Metallurgy, Bulletin, Montreal, 1921, no. 112, p. 715–720.) **VHA**

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Also in *Canadian mining journal*, Gardenvale, 1921, v. 42, p. 684–686, *VHA*.

851. —— Asbestos-mining and milling. illus. tables. (Canadian Institute of Mining and Metallurgy, Bulletin, Montreal, 1927, May, p. 527–560.) **VHA**

Geology of the Quebec area, mining and milling practices, and statistics.

852. Ross, W. G. Asbestos. (Canadian mining journal, Gardenvale, 1925, v. 46, p. 882.)

Statements regarding proposed merger. **VHA**

853. —— The asbestos industry in Canada. (Canadian mining journal, Gardenvale, Que., 1926, v. 47, p. 338–339.) **VHA**

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854. —— The Canadian asbestos situation. Rhodesian competition. Local demand for price control. (India rubber journal, London, 1924, v. 67, p. 854–855.) † **VMV**

Impossibility of cooperation among the producing companies.

855. Roth, Justus Ludwig Adolf. Allgemeine und chemische Geologie. Berlin, 1879–93. 3 v. 8°. **PTK**

See p. 125–126, 129, 133–134 for brief references to occurrences in various parts of the world with several analyses and footnote references.

856. Rowe, J. P. Minor metals and nonmetallic minerals of Montana. (Engineering and mining journal, New York, 1928, v. 125, p. 816–818.) † **VHA**

Brief reference to deposits.

857. Rowe, R. C. Asbestos. Non-conductor of heat. illus. (Power house, Toronto, 1926, v. 19, Feb. 20, p. 26–29.) **VFA**

General article, describing mining and grading. Pictures of the plant of the Asbestos Corporation of Canada.

858. —— The Bell asbestos mine at Thetford mines. illus. diagrs. (Canadian mining journal, Gardenvale, Que., 1928, v. 49, p. 146–151.) † **VHA**

Deals with geology, theories of formation, and mining and mill practice. Has a flow sheet.

859. Rowell, H. W. The origin and properties of asbestos. illus. (Asbestos, Rochdale, 1918, v. 1, p. 7–8, 35–36, 71–72, 115–116; 1919, v. 2, p. 33–34, 70–71, 104–105, 139–140.) **VLA**

860. The Rubber, insulated wire, and asbestos industries in Finland. illus. (India-rubber journal, London, Sept. 27, 1924, v. 68, p. 733–734.) **VHA**

Abstracted in *Asbestos*, Philadelphia, 1925, v. 6, no. 7, p. 38–39, *VHA*.

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Metal tinsel and flake asbestos for Christmas trimmings.

862. —— Japanese nightingales — and asbestos. (Asbestos, Philadelphia, 1925, v. 6, no. 12, p. 36.) **VHA**

Meal worms for the birds kept in asbestos-lined box.

863. RuKeyser, Walter Arnold. Asbestos mining and milling in Quebec. illus. (Engineering and mining journal-press, New York, 1922, v. 113, p. 617–625, 670–677.) † **VHA**

864. —— Past and present methods of mining and milling asbestos. illus. (Asbestos, Philadelphia, 1921, v. 2, no. 11, p. 6–8, 10, 12, 15, 17; no. 12, p. 5–8, 10, 12–13, 15, 17, 19; v. 3, no. 1, p. 5–6, 8, 10, 13, 15, 17, 19.) **VHA**

865. Russia as an asbestos producer. (Russian economic bulletin, New York, Feb.–March, 1921, v. 3, nos. 2–3, p. 4.) **TLA**

Information furnished by Mr. Stanislas Littauer.

866. Russia — the land of unfilled promise. (Asbestos, Philadelphia, 1921, v. 2, no. 12, p. 47–48.) **VHA**

Information from Mr. Stanislas Littauer regarding occurrence, labor, freight rates, and production.

867. The **Russian** asbestos industry. (Asbestos, Philadelphia, 1921, v. 2, no. 9, p. 25–28.) **VHA**

Information supplied by the U. S. Department of Commerce.

868. The **Russian** asbestos industry. (India rubber journal, London, 1926, v. 72, p. 64.) † **VMV**

Russian asbestos stated to be better than Canadian. Brief accounts of the asbestos trust (Uralasbest) and of the Allied American Corporation.

869. Russian asbestos supplies. (India rubber journal, London, 1924, v. 67, p. 872.) † **VMA**

Statistics of the Russian asbestos trust.

870. Russian notes. (Asbestos, Philadelphia, 1923, v. 5, no. 5, p. 12.) **VHA**

871. Saborsky, A. D. Glass wool heat insulation in Europe. illus. (American Ceramic Society, Journal, Easton, Penn., 1923, v. 6, p. 674–684.) **VNE**

See p. 678 for curves showing heat conductivity of asbestos-magnesia and asbestos-kieselguhr.

872. Sachs, Albert P. Asbestos cements. (Asbestos, Philadelphia, 1925, v. 6, no. 12, p. 12, 14–15.) **VHA**

873. Saeure- und feuerfeste Asbestkörper. (Gummi-Zeitung, Dresden, 1903, Jahrg. 17, p. 1045.) †† **VMA**

Briefly describes manufacture.

874. Sage, B. G. De l'emploi de l'amiante à la Chine. (Journal de physique, Paris, 1804, tome 59, p. 217–218.) **3 – OA**

Translation in *Philosophical magazine*, London, 1805, v. 21, p. 243–244.

Reports a Chinese furnace made of asbestos.

875. [Sale of Asbestos Packing Company's properties.] (Engineering and mining journal, New York, 1888, v. 46, p. 93.) **VHA**

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876. Saubermann, S. Ueber das Verhalten von Asbest in entleuchten Flammen. (Chemiker-Zeitung, Cöthen, 1902, Jahrg. 26, Sem. 2, p. 180.) **†† VA**

Abstract in *Journal of the Society of Chemical Industry*, London, 1902, v. 21, p. 396, *VOA*; *Gummi-Zeitung*, Dresden, 1902, Jahrg. 16, p. 447, †† *VMA*.

877. Saussure, Horace Bénédict de. Voyages dans les Alpes, précédés d'un essai sur l'histoire naturelle des environs de Genève. v. 1–4: Genève: Chez Barde, Manget & Compagnie, 1786–87; v. 5–8: Neuchâtel: Chez Louis Fauche-Borel, 1796. 8 v. 12°. **PSO**

See v. 1, p. 116–129 for fire and acid tests on asbestos from St. Bernard and amianthus from Tarentaise; v. 6, p. 257–259 for description of byssolite from Lauteraar; v. 7, p. 154–156 for description of amianthus and steatite from St. Gotthard.

878. Sch. Herstellung von Wein- und Bierfiltern. (Gummi-Zeitung, Berlin, 1921, Jahrg. 35, p. 618–619.) **†† VMA**

879. Schaaf-Regelman, E. Asbestos; its mining, preparation, markets, and uses. illus. (Engineering magazine, New York, 1907, v. 34, p. 68–80.) **VDA**

880. —— Asbestos and its importance as a national asset. Early history records its use. Its fibrous crystallization a mineralogical phenomenon. Asbestos is absolutely indispensable to civilization. Road building and power lines the only essential to development in the United States. illus. (Mining Congress journal, Washington, 1927, v. 13, p. 176–179.) **VHA**

Describes occurrence in Gila county, Arizona. This paper has been reprinted for distribution by the Keasbey and Mattison Company, Ambler, Penn.

881. —— Chrysotile vs. amphibole. (Asbestos, Philadelphia, 1924, v. 6, no. 5, p. 5–6, 9.) **VLA**

882. —— Development difficulties in Arizona. (Asbestos, Philadelphia, v. 8, 1927, no. 7, Jan., p. 10–12.) **VHA**

883. —— The iron content of asbestos. (Asbestos, Philadelphia, 1921, v. 3, no. 1, p. 45–46.) **VHA**

884. Scheerer, Th. Beiträge zur näheren Kenntniss des polymeren Isomorphismus. (Annalen der Physik und Chemie, Leipzig, 1851, Bd. 84, p. 321–410.) **PAA**

Includes analyses of anthophyllite from Kongsberg (Norway), Canada, and New York; tremolite from Reichenstein (Silesia); mountain cork from Zillerthal; asbestos from St. Gotthardt; crocidolite.

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886. Schmidt, G. Asbest und Nephrit von Poschiavo in Graubünden. (Zeitschrift für praktische Geologie, Berlin, 1917, Jahrg. 25, p. 77–81.) **PTA**

887. Schoellmann, Wilhelm. Das Ganze der Asbest-Verarbeitung. Berlin: Union deutsche Verlagsgesellschaft, 1925. 69 p. illus. 3. ed. 8°. **VKE p.v.42, no.2**

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889. —— Zur Prüfung von Asbestpappen. (Gummi-Zeitung, Dresden, 1902, Jahrg. 16, p. 371–372.) **†† VMA**

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Brief abstracts in *Engineering and mining journal*, New York, 1897, v. 64, p. 243; *Journal of the Society of Chemical Industry*, 1897, v. 16, p. 522, *VOA*.

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See p. 156.

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Statement of operations and prices.

897. Selective Treatment Company, Ltd. A new treatment for asbestos. illus. (Canadian mining journal, Gardenvale, 1924, v. 45, p. 983.) **VHA**

Wet method replaces dry method.

898. "Senseless competition" causes dividend cut by Asbestos Corporation. Canadian company blames neighboring producers for low prices. Rhodesia also factor. (Engineering and mining journal-press, New York, 1923, v. 116, p. 559.) **VHA**

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States uses as fireproof material, with comments on Iroquois Theatre fire, Chicago.

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901. Shannon, Earl V. Description of ferroanthophyllite, an orthorhombic iron amphibole from Idaho, with a note on the nomenclature of the amphibole group. (United States National Museum, Proceedings, Washington, 1922, v. 59, p. 397–401.) * **EA**

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Obituary and portrait of the inventor of asbestos packing.

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910. —— Asbestos improves electric-arc welding. illus. (Asbestos, Philadelphia, 1922, v. 3, no. 9, p. 5–8, 10, 13.) **VHA**

911. —— Asbestos insulated wire. illus. (Asbestos, Philadelphia, 1922, v. 3, no. 11, p. 5–8, 10, 13–14, 17.) **VHA**

Brief account of manufacture and uses. Also in *Raw material,* New York, 1922, v. 5, p. 224–226, *VHA.*

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Brief statement of low-grade asbestos found.

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917. —— Asbestos selvage edge tape, its manufacture and general uses. (Asbestos, Philadelphia, 1922, v. 3, no. 7, p. 5–8, 10, 13, 15, 17–18.) **VHA**

Describes crushing of asbestos, mixing, carding, spinning, twisting, warping, calendering, inspection, and various uses. Also in *India rubber journal,* London, 1922, v. 63, p. 311–313, † *VMV.*

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Discusses the use of blue- and white-asbestos in packings and gives a method of identifying them in the "unburnable packings."

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Brief reference to mines in the Ural mountains, the Caucasus, and Siberia, with statistics. Author was consul general at Moscow. Also in *Journal of the Royal Society of Arts*, 1916, v. 64, p. 801–802, *VA*.

922. **Some** novel uses of asbestos. (Engineering and mining journal, New York, 1895, v. 59, p. 243.) VHA

Asbestos cloth.

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924. **Some** uses for asbestos string. (The light car and cycle car, London, 1926, v. 27, p. 365.) TOL

For packings and wicks. Also in *India rubber journal*, London, 1926, v. 71, p. 354, † *VMV*.

925. The **South African** asbestos industry. Fresh developments. Rhodesia's rapidly growing output. (India rubber journal, London, 1922, v. 63, p. 989–990.) † VMV

Good descriptive article with statistics.

926. **South African** Asbestos Mines, Limited. (South African mining and engineering journal, Johannesburg, 1921, v. 32, part 2, p. 99–100.) †† VHA

Describes property, mining, milling, and transport. Amosite and crocidolite are both found in this region. Abstracted in *Asbestos*, Philadelphia, 1921, v. 3, no. 6, p. 48, 51, *VHA*.

927. **South African** blue asbestos. (India rubber journal, London, 1916, v. 51, p. 326.) † VMV

Opinions of four British firms on value of this variety.

928. **South African** industry expanding. (Engineering and mining journal-press, New York, 1923, v. 116, p. 771.) VHA

929. **Southern** Africa's asbestos deposit. illus. (South African mining and engineering journal, Johannesburg, 1923, v. 33, part 2, p. 577–578.) VHA

Statistics for Rhodesian and South African fields. References to amosite found on the Olifants river; the New Gloria mine; and the unusual length of fibre in the Barberton district.

930. **Soviet** asbestos industry. (Mining journal, London, 1926, v. 154, p. 709.) † VHA

Plans of the Industrial Planning Committee. Also in *South African mining and engineering journal*, Johannesburg, 1926, v. 37, part 2, p. 150, †† *VHA*.

931. The **Specific** gravity of asbestos. (Asbestos, Philadelphia, 1929, v. 10, no. 9, p. 20, 22.) VHA

Mellon Institute, Pittsburgh, gives an average of 2.2 for chrysotile.

932. **Spinning** and weaving asbestos. illus. (India rubber journal, London, 1922, v. 64, p. 153–156.) † VMV

933. **Springer**, J. F. Asbestos, its production and industrial applications. illus. (Cassier's magazine, New York, 1912, v. 42, p. 298–309.) VDA

Canadian mining and milling methods. Illustrations of Ural asbestos region.

934. **Ssaftschenkow**, T. von. Paligorskit. (Kaiserliche Gesellschaft für die gesammte Mineralogie zu St. Petersburg, Verhandlungen, St. Petersburg, 1862, Jahrg. 1862, p. 102–104.) PWA (Rossiiskoye)

935. **Standardization** of asbestos millboard. (Asbestos, Philadelphia, 1920, v. 1, no. 9, p. 38.) VHA

Work of the Mellon Institute for the Asbestos Paper Manufacturers' Association.

936. **Stark**, Alfred H. Comments on amosite asbestos. (Asbestos, Philadelphia, 1920, v. 2, no. 5, p. 5–8, 10.) VHA

937. **Statistical** position of asbestos and marketing methods. illus. (Raw material, New York, 1922, v. 5, p. 396–398.) VIA

938. **Steffens**, Heinrich. Vollständiges Handbuch der Oryktognosie. Theil 1–3. Halle: Curtsche Buchhandlung, 1811–19. 16°. PWD

See p. 274 for common asbestos, amianthus, mountain cork and mountain wood, with bibliographical references and discussion as to nomenclature.

Complete in 4 v.

939. **Steffens**, W. L. Asbestos paper — a brief history. (Asbestos, Philadelphia, 1919, v. 1, no. 6, p. 12–14.) VHA

Some early references with a chronology of American mills.

940. Die **Stellung** der deutschen Asbestwaren-Fabriken zum Zolltarif-Entwurf. (Gummi-Zeitung, Dresden, 1901, Jahrg. 16, p. 71–72.) †† VMA

941. **Stewart**, John. Asbestos in Quebec. (Engineering and mining journal, New York, 1892, v. 53, p. 63.) VHA

Account of progress during 1891. Most of the mines closed by reason of the Mining Act.

942. **Stilgenbauer**, Floyd A. Economic geography of Canadian asbestos. diagrs., map. (Geographical Society of Philadelphia, Bulletin, Philadelphia, 1925, v. 23, Jan., p. 13–21.) KAA

943. **Stover**, C. J. The asbestos industry in Europe as it impressed me. (Asbestos, Philadelphia, 1924, v. 6, no. 5, p. 22, 24.) VHA

The president of Consolidated Asbestos, Ltd., writes of conditions in England, Belgium, Holland, France, Germany, and Italy.

944. **Stow**, George W. Geological notes upon Griqualand West, with descriptions of the specimens by Prof. T. Rupert Jones. illus. (Geological Society, Quarterly journal, London, 1874, v. 13, p. 581–680.) PTA

Brief references to fibrous quartz and crocidolite.

945. A **Strike** of more than 2000 employees. (Engineering and mining journal, New York, 1915, v. 100, p. 739.) VHA

Strike for restoration of pre-war wages in the Thetford district.

946. Stromeyer, F., and J. F. HAUSMANN. [Über den asbestartigen Krokydolith.] (Göttingische gelehrte Anzeigen, Göttingen, 1831, Bd. 3, p. 1585–1597.) ***DF**

947. Stuart, George S. Asbestos nomenclature. illus. (Asbestos, Philadelphia, 1921, v. 3, no. 2, p. 5–8, 10.) **VHA**

948. —— Standardization. (Asbestos, Philadelphia, 1922, v. 3, no. 12, p. 20, 22, 24, 26.) **VHA**

949. Stuart, J. Asbestos and serpentine. (American journal of science and arts, New Haven, 1823, v. 6, p. 249.) **OA**

Describes occurrence in Vermont.

950. Stubblefield, D. R. About asbestos. (India rubber journal, London, 1927, v. 73, p. 27.) **† VMV**

This essay was awarded a prize by Mr. B. Marcuse of New York.

951. Stuebling, Rudolf. Plastische Körper aus Asbest. (Gummi-Zeitung, Dresden, 1902, Jahrg. 17, p. 50.) **†† VMA**

Precautions to be noticed in manufacture.

952. Summers, Alfred Leonard. Asbestos and the asbestos industry; the world's most wonderful mineral and other fireproof materials... London and New York: Sir Isaac Pitman and Sons, Ltd. [1919.] ix, 107 p. illus. 12°. **VHT**

For review see *Engineering and mining journal,* New York, 1921, v. 111, p. 233, *VHA.*

953. Sutherland, W. F. Asbestos mines in Quebec. (Scientific American, New York, 1919, v. 121, p. 315, 326–327.) **VA**

954. Taber, Stephen. The genesis of asbestos and asbestiform minerals. (American Institute of Mining Engineers, Bulletin, New York, Nov., 1916, p. 1973–1998.) **VHA**

Discussion by John C. Branner, John A. Dresser, R. P. D. Graham, and George P. Merrill, in March, 1917, p. 397–405.

Also in *American Institute of Mining Engineers, Transactions,* New York, 1918, v. 57, p. 62–98, including discussion, *VHA.*

955. —— The growth of crystals under external pressure. illus. (American journal of science, New Haven, 1916, series 4, v. 41, p. 532–556.) **OA**

See p. 546 for experiment which suggests the formation of asbestos fibres.

956. —— Mechanics of vein formation. illus. (American Institute of Mining and Metallurgical Engineers, Transactions, 1919, New York, 1920, v. 61, p. 3–41.) **VHA**

With discussion.

957. —— Metasomatism and the pressure of growing crystals. illus. (Economic geology, New Haven, 1926, v. 21, p. 717–727.) **PTA**

Discussion of fibre formation.

958. —— The origin of chrysotile veins. (Economic geology, Lancaster, Penn., 1917, v. 12, p. 476–479.) **PTA**

959. —— The origin of veinlets in the Silurian and Devonian strata of central New York. illus. (Journal of geology, Chicago, 1918, v. 26, p. 56–73.) **PTA**

Fibrous veins are discussed, p. 63–65.

960. —— The origin of veins of the asbestiform minerals. (National Academy of Science, Proceedings, Baltimore, 1916, v. 2, p. 659–664.) ***EA**

961. —— The origin of veins of fibrous minerals. illus. (Economic geology, New Haven, 1924, v. 19, p. 475–486.) **PTA**

962. Taggart, Arthur Fay. Handbook of ore dressing. New York: John Wiley and Sons, Inc., 1927. xvii, 1679 p. illus. 12°. **VIB**

See p. 19–23 for properties, ores, production, grades, treatment, and flow sheets.

963. Tax on asbestos reduced. (Engineering and mining journal, New York, 1922, v. 113, p. 345.) **VHA**

Quebec reduces export tax from 5 to 3 per cent for four months, and to 2 per cent on asbestos manufactured within the province.

964. Test of fireproof airplane and equipment. illus. (Asbestos, Philadelphia, 1921, v. 2, no. 2, p. 13–14.) **VHA**

Aviators use asbestos suits.

965. Testing asbestos board. (Engineering and mining journal, New York, 1897, v. 64, p. 161.) **VHA**

966. Testing asbestos fibre. (Asbestos, Philadelphia, 1919, v. 1, no. 6, p. 15–16.) **VHA**

967. Testing and defining asbestos textiles. (Asbestos, Philadelphia, 1925, v. 6, no. 10, p. 30, 32.) **VHA**

Discusses appointment of committee by the American Society for Testing Materials.

968. Tests on brake linings. (National Physical Laboratory, Teddington, England, Report for 1913–14, p. 115–117.) **PAN**

To determine coefficients of friction under varying conditions of load, speed and temperature. Also in *India rubber journal,* London, 1914, v. 48, p. 276–277, † *VMV.*

969. Thaulow, M. C. J. Chemische Untersuchung des Bergholzes von Sterzing in Tyrol. (Annalen der Physik und Chemie, Leipzig, 1837, Bd. 11, p. 635–642.) **PAA**

970. Theatre curtains. (Asbestos, Philadelphia, 1922, v. 3, no. 10, p. 26–27.) **VHA**

Combats idea that asbestos curtain cannot be rigidly constructed.

971. [**Thetford** mines.] (Engineering and mining journal, New York, 1885, v. 40, p. 390.) **VHA**

Notice of proposed mill.

972. Thetford mines, Quebec. (Engineering and mining journal, New York, 1917, v. 104, p. 1062.) **VHA**

Summary of year's activities.

973. Thetford mines, Quebec. (Engineering and mining journal, New York, 1918, v. 106, p. 727.) **VHA**

Record of current activities.

974. Thetford mines, Quebec. (Engineering and mining journal, New York, 1919, v. 107, p. 252.) **VHA**

Conditions after the armistice.

975. Thetford mines, Quebec. (Engineering and mining journal, New York, 1919, v. 107, p. 592.) **VHA**

Reference to relief of labor shortage and to operations at various mines.

976. Thetford mines, Quebec. (Engineering and mining journal, New York, 1919, v. 108, p. 200.) **VHA**

Current news of the district.

977. Thiele, Hermann. Ueber Gewichtsveränderungen des Asbestes beim Glühen. (Zeitschrift für öffentliche Chemie, Plauen, 1901, Bd. 7, p. 388–389.) **VOA**

Abstracted in *Gummi-Zeitung,* Dresden, 1901, Jahrg. 16, p. 143, †† *VMA.*

978. Think asbestos mine waste valuable as a fertilizer. (Engineering and mining journal, New York, 1926, v. 122, p. 905.) † **VHA**

Brief reference to tests at MacDonald College.

979. Third census of production (engine and boiler packing and asbestos trades). (Chemistry and industry, London, 1927, v. 46, p. 722.) **VOA**

1924 statistics for Great Britain.

980. Thomson, Thomas. On asbestus, chlorite, and talc. (Royal Society of Edinburgh, Transactions, Edinburgh, 1831, v. 11, p. 352–388.) * **EC**

Analyses of amianthus from Sardinia and Carinthia; asbestos from Irkutzk and the island of Bernera; rock wood from the Tyrol; mountain leather from Strontian; mountain cork from Piedmont; nemalite from New Jersey.

981. Tilingius, Matthias. De lino vivo aut asbestino & incombustibili. (Leopoldinisch-Carolinische deutsche Akademie der Naturforscher, Miscellanea curiosa, Nurimberg, 1683, p. 109–123.) 3 – * **EE**

Historical references, nomenclature, characteristics, and medical uses.

982. Torrey, Edward. The breaking of asbestos bearing rock. (Canadian Mining Institute, Quarterly bulletin, Montreal, 1911, no. 13, p. 71–80.) **VHA**

983. Trainer, C. W. Early asbestos day in Boston. (Asbestos, Philadelphia, 1927, v. 9, no. 5, Nov., p. 27–30.) **VHA**

Recollections of his association with H. W. Johns.

984. Trainor, Edward J. Difficulties in asbestos manufacturing. (Asbestos, Philadelphia, 1924, v. 6, no. 4, p. 37–38.) **VHA**

Refers to asbestos fabrics.

985. Trevor, Tudor G. Notes on some of the Union's non-metallic minerals. (South African journal of industries, Pretoria, 1924, v. 7, p. 455–461.) **TLA**

Brief references to occurrences of asbestos, p. 455–

986. Trischka, Carl. Asbestos and the Arizona industry. illus. (Engineering and mining journal, New York, 1927, v. 124, p. 337–340.) † **VHA**

987. Tschermak, Gustav. Lehrbuch der Mineralogie. Wien, 1894. x, 607 p. 4. ed. illus. 8°. **PWD**

Tremolite, p. 458; chrysotile, p. 513.

988. Tschirwinsky, Peter. Krokydolith aus dem Bezirk Minussinsk in Siberien. (Centralblatt für Mineralogie, Stuttgart, 1907, p. 435–438.) **PWA**

Author later admits that this is rhodusite. See *Neues Jahrbuch für Mineralogie,* Stuttgart, 1909, Bd. 2, p. 21, *PWA.*

989. Twelvetrees, William Harper. ...Asbestos at Anderson's creek... Hobart: J. Vail, 1917. 28 p. illus. 8°. (Tasmania. — Geological Survey. Mineral resources. no. 4.) **VHFA (Tasmania)**

990. Types of asbestos. (Mining and scientific press, San Francisco, 1916, v. 113, p. 810.) **VA**

991. Ueber das Schicksal des Asbesthauses. (Gummi-Zeitung, Dresden, 1901, Jahrg. 15, p. 666–667.) †† **VMA**

Refers to Graf Waldersee's asbestos house.

992. The Union's blue asbestos. (South African mining and engineering journal, Johannesburg, 1928, v. 38, part 2, p. 653.) †† **VHA**

A reply to the article entitled Misconceptions about blue asbestos. See entry no. 711.

993. United Asbestos Company. (Engineering and mining journal, New York, 1890, v. 50, p. 660.) **VHA**

Operates the Kresbette mine in Quebec.

994. United States. — Federal Specifications Board. United States government master specification for asbestos high-pressure rod packing. Federal Specifications Board specification no. 103a. [Washington: Gov. Prtg. Off., 1925.] 3 p. 4°. (United States. — Bureau of Standards. Circular no. 238.) **VBDA**

995. —— United States government master specification for asbestos metallic cloth gaskets. Federal Specifications Board specification no. 97a. [Washington: Gov. Prtg Off., 1925.] 3 p. 4°. (United States. — Bureau of Standards. Circular no. 242.) **VBDA**

996. —— United States government master specification for asbestos metallic cloth sheet packing. Federal Specifications Board specification no. 94a. [Washington: Gov. Prtg. Off., 1925.] 3 p. 4°. (United States. — Bureau of Standards. Circular no. 243.) **VBDA**

Also in *India rubber journal,* London, 1925, v. 70, p. 1031, † *VMV.*

997. —— United States government master specification for compressed asbestos sheet packing. Federal Specifications Board specification no. 96a. [Washington: Gov. Prtg. Off., 1925.] 4 p. 4°. (United States. — Bureau of Standards. Circular no. 241.) **VBDA**

998. United States. — Foreign and Domestic Commerce Bureau. ...Asbestos: world production and trade. Prepared in Western European Division. April 20, 1922. Washington: Gov. Prtg. Off., 1922. 10 p. tables. 8°. (Trade information bulletin. no. 20.) **TLG (U. S.)**

999. —— Asbestos sources and trade. [Washington: Gov. Prtg. Off., 1926.] ii, 23 p. 8°. (Trade information bulletin. no. 442.) **TLG**

Comprehensive review of the industry in United States, Russia, Finland, Cyprus, Austria, India, China, Australia, Argentina, Union of South Africa, Rhodesia, and Italy.

1000. United States. — Mines Bureau. Mineral resources of the United States. no. 1–10 (1882–93), 1900–26. Washington: Gov. Prtg. Off., 1883–1929. 8°. **VHCA**

From 1894 to 1899 published only as a part of the *Annual report* of the Geological Survey.

1001. United States. — Standards Bureau. Simplified practice recommendation no. 19. Asbestos paper and asbestos millboard. Washington: Gov. Prtg. Off., 1924. 6 p. 8°. **VBDA**

On cover: Elimination of waste. Simplified practice.
Recommendations for standard sizes, weights, widths, and thicknesses.

1001a. —— —— 1st revision. Washington: Gov. Prtg. Off., 1927. 11 p. 8°. **VBDA**

1001b. —— —— 3d ed., September, 1928. Washington: Gov. Prtg. Off., 1928. iv, 10 p. 8°. **VBDA**

1002. —— Fire test of a theatre curtain. (Technical news bulletin, April 10, 1924, no. 84, p. 188–189.) **VBDA**

1003. United States. — Tariff Commission. Tariff information surveys on the articles in paragraph 367 of the Tariff Act of 1913 and related articles in other paragraphs... Printed for use of Committee on Ways and Means, House of Representatives. Asbestos. N–20. Washington: Gov. Prtg Off., 1921. 56 p. 8°. **TIX**

Domestic and foreign statistics of unmanufactured and manufactured asbestos, geographical distribution, methods of production, court and treasury decisions. Has sections on asbestos textiles, packings, paper and millboards, pipe and boiler coverings, shingles, slates, wood, or lumber.

1004. The **United States** Asbestos Company. port. (Asbestos, Philadelphia, 1924, v. 5, no. 12, p. 14–15, 17, 19.) **VHA**

History of the company with a portrait of its president, Mr. S. R. Zimmerman.

1005. United States Government vs. asbestos firms. (Asbestos, Philadelphia, 1928, v. 9, no. 9, March, p. 46–47.) **VHA**

Illegal monopoly claimed.

1005a. Uses of asbestos and asbestos products. (Asbestos, Philadelphia, 1925, v. 7, no. 1, p. 28–30, 32, 35.) **VHA**

Surprisingly long list.

1006. Van Hise, Charles Richard. A treatise on metamorphism. Washington: Gov. Prtg. Off., 1904. 1286 p. illus. 4°. (United States. — Geological Survey. Monographs. v. 47.)

See p. 273–281, 283, 353. **PTB**

1007. Venerand, Wolfgang. Asbest und Feuerschutz; Vorkommen, Verarbeitung und Anwendung des Asbestes. Feuerschutz in Theatern, öffentlichen Gebäuden usw... Wien: A. Hartleben, 1920. vii, 360 p. diagrs. illus. 2. ed., rev. and enl. 12°. (A. Hartleben's chemisch-technische Bibliothek. Bd. 133.) **VLR**

Library also has 1st ed., 1886, 216 p.
A comprehensive work.

1008. Verband deutscher Asbestwerke. (Gummi-Zeitung, Dresden, 1904–05, Jahrg. 18, p. 729, 950, 977–978, 1016–1017, 1063; Jahrg. 19, p. 27, 192, 333–334, 443–444, 507–508, 1106–1107.) †† **VMA**

Accounts of meetings and activities.
Titles of articles vary.

1009. Verfahren zum Transparentmachen von Asbestpapier. (Gummi-Zeitung, Dresden, 1899, Jahrg. 14, p. 172.) †† **VMA**

1010. Verwendung von Asbestonbeton für Eisenbahnschwellen. (Gummi-Zeitung, Berlin, 1913, Jahrg. 28, p. 394.) †† **VMA**

1011. Verzeichnis von Asbest- und Asbest-Gummi-Artikeln in 5 Sprachen. (Gummi-Zeitung, Dresden, 1901, Jahrg. 15, p. 314–315.) †† **VMA**

1012. The **Vibration** mat. (Asbestos, Philadelphia, 1926, v. 8, Sept., p. 40.) **VHA**

Used to obviate annoying vibrations caused by trains under the Graybar building, New York City.

1013. Vié, Georges. L'industrie de l'amiante. (L'Industrie chimique, Paris, 1920, année 7, p. 273–274.) **VOA**

Brief general article.

1014. A **Visit** to an asbestos manufactory. illus. (Engineering and mining journal, New York, 1883, v. 36, p. 326–327.) **VHA**

Account of operations at plant of the Chalmers-Spence Company, New York City.

1015. Volger, Georg Heinrich Otto. Die Entwicklungsgeschichte der Mineralien der Talkglimmer-Familie und ihrer Verwandten sowie der durch dieselben bedingten petrographischen und geognostischen Verhältnisse. Zürich: F. Schulthess, 1855. xv, 634 p. 12°. **VHT**

Discusses origin of chrysotile. See p. 348–349, 492–493.

1016. W. G. Ross paints gloomy picture of Quebec asbestos industry. Urges Government to "establish price at which exports can be made." Co-operation impracticable. (Engineering and mining journal-press, New York, 1924, v. 117, p. 777.) **VHA**

Synopsis of report of Asbestos Corporation of Canada.

1017. Wagner, Percy Albert. Asbestos. (South African journal of industries, Pretoria, 1917, v. 1, p. 251–270.) **TLA**

Composition and classification; valuation and physical properties, sources of supply, especially of South

Africa; occurrences of tremolite in Zululand, crocidolite in Griqualand West, iron amphibole in the Transvaal; position and prospects of the South African asbestos manufacturing industry.

1018. **Waite**, Nicholas. A letter from Mr. Nich. Waite, merchant of London, to Dr. Rob. Plot; concerning some incombustible cloth, lately exposed to the fire before the Royal Society. (Royal Society of London, Philosophical transactions, Oxford, 1685, no. 172, p. 1049–1051.) * **EC**

Discussion as to whether this Chinese "linnen" cloth was of vegetable or mineral origin. For further discussion see reply by Robert Plot (entry no. 789).

1019. **Wallerius**, Johan Gottskalk. Minéralogie; ou, Description générale des substances du règne mineral. Ouvrage traduit de l'Allemand [par P. H. D. von Holbach]. Paris: Durand, 1753. 2 v. 8°. **PWD**

See tome 1, p. 262–275 for brief descriptions of various varieties. Discusses possibility of transforming *asbeste mûr* into *asbeste non mûr*. Comments on claim for vegetable origin.

1020. **Warenkunde** für den Gummiwarenhändler. (Gummi-Zeitung, Dresden, 1904, Jahrg. 19, p. 5–7, 64–65.) †† **VMA**

Descriptive glossary of asbestos products.

1021. **Wassell**, Helen E. An investigation of asbestos millboard in formulating specifications for asbestos fibre and millboard. (Asbestos, Philadelphia, 1922, v. 4, no. 3, p. 5–6, 8, 10, 12.) **VHA**

Results and methods of tests carried on by the Mellon Institute for the U. S. Navy Department.

1022. **Water** pipes of asbestos. illus. (Asbestos, Philadelphia, 1925, v. 6, no. 10, p. 4–6, 8, 11–12.) **VHA**

Made under the Hatschek patents by "Eternit" Pietra Artificiale, Genoa, Italy. Uses the Gibault joint. Results of various tests.

1023. **Watson**, Thomas Leonard. Mineral resources of Virginia. Lynchburg: J. P. Bell Co., 1907. xxxi, 618 p., 3 diagrs., 10 maps, 1 plan, 67 pl., 2 tables. 4°. **VHCC**

See p. 285–287.

1024. —— Virginia. (Engineering and mining journal, New York, 1907, v. 83, p. 25–27.) **VHA**

See p. 27 for brief account of American Asbestos Company's deposits.

1025. **Watson's** Imperial all asbestos covering. illus. (Asbestos, Philadelphia, 1921, v. 3, no. 5, p. 45, 47.) **VHA**

1026. **Weaks**, M. C. The discovery and early uses of asbestos. illus. (Asbestos, Philadelphia, 1921, v. 3, no. 2, p. 13, 15, 17.) **VHA**

1027. **Weaver**, J. M. Asbestos yarn. (Asbestos, Philadelphia, 1927, v. 8, no. 10, April, p. 3–4, 6, 8.) **VHA**

Suggestions for standardized grading.

1028. —— Standardizing asbestos paper. (Asbestos, Philadelphia, 1926, v. 8, Nov., p. 26, 28.) **VHA**

Account of work undertaken by the United States Bureau of Standards.

1029. **Weber**, F. C. Asbestos moulded electrical insulations. illus. (Asbestos, Philadelphia, 1923, v. 5, no. 5, p. 7–9, 11.) **VHA**

1030. —— Asbestos sound absorbing plaster. illus. (Asbestos, Philadelphia, 1929, v. 10, no. 9, p. 3–6.) **VHA**

Describes Ambler sound absorbing plaster.

1031. **Webster**, I. W. Asbestos in anthracite. (American journal of science and arts, New Haven, 1818, v. 1, p. 243–244.) **OA**

1032. **Welsford**, Victor S. Asbestos in southern Africa. (Asbestos, Philadelphia, 1920, v. 2, no. 5, p. 19–20, 22.) **VHA**

Statistics of production.

1033. **Weniger**, Karl Albert. Asbestpappe- und Asbestpapier-Herstellung. (Wochenblatt für Papierfabrikation, Stuttgart, 1919, Jahrg. 50, Nr. 11, p. 613.) † **VMPA**

1034. —— Die Asbestpappenfabrikation. (Der Papier-Fabrikant, Berlin, 1913, Jahrg. 11, Fest- und Ausland Heft, p. 82–87.) † **VMPA**

1035. —— Die Asbestzementschiefer-Fabrikation; praktisches Handbuch für technische und kaufmännische Beamte der Asbest-, Zement-, Pappen- und Bauindustrie, sowie zum Unterricht in Fachschulen. Berlin: M. Krayn, 1914. viii, 216 p., 5 plans, 1 pl. 8°. **VLR**

1036. —— Die Herstellung von Asbestpappe und Asbestpapier... Wien: A. Hartleben, 1920. vii, 178 p. diagrs. illus. 12°. (A. Hartleben's chemisch-technische Bibliothek. Bd. 362.) **VLR**

Abstracted by Ismar Ginsberg in *Asbestos*, Philadelphia, 1925, v. 7, no. 5, p. 12–18; 1926, v. 7, no. 8, p. 14–20; 1926, v. 8, no. 6, p. 6–10, *VHA*.

1037. —— The manufacture of asbestos boards. (India rubber journal, London, 1913, v. 46, p. 431–432.) † **VMV**

Abstracted in *Journal of the Society of Chemical Industry*, London, 1912, v. 31, p. 283, *VOA*.

1038. —— Der Rohasbest und seine Bedeutung für die Industrie. (Technik für Alle, Stuttgart, 1919–20, Bd. 10, p. 298–301.) **VA**

Brief references to asbestos in Thuringia and the Tyrol.

1039. —— Der Rohasbest und seine Bedeutung für die Papier- und Pappenmacher. (Wochenblatt für Papierfabrikation, Stuttgart, 1919, Jahrg. 50, Nr. 1, p. 23–25.) † **VMPA**

1040. **Werner**, Abraham Gottlob. Von den äusserlichen Kennzeichen der Fossilien. Leipzig, 1774. 302 p. 8°. **PWF**

Discusses briefly the characteristics of fibrous minerals in general.

1041. **Werner**, H. C. Prepared roofing. (Asbestos, Philadelphia, 1923, v. 4, no. 11, p. 14–18, 20; no. 12, p. 18–24.) **VHA**

Describes manufacture of rag felt and asbestos roofings and compares their qualities.

1042. Wet process asbestos. (India-rubber journal, London, 1924, v. 68, p. 760.) **VMV**

The Asbestos Mills, Inc., near Black Lake, Quebec, working under patents of the Selective Treatment Company.

1043. Wetterfeste und wasserdichte Asbestpappe zu Dachdeckungszwecken und dergl. (Papier-Zeitung, Berlin, 1903, Jahrg. 28, p. 252.) 3 – †† **VMA**

1044. What are floats. (Asbestos, Philadelphia, 1924, v. 6, no. 4, p. 36–37.) **VHA**

1045. Which shall it be. A pageant. (Asbestos, Philadelphia, 1925, v. 6, no. 7, p. 4–5, 7.) **VHA**

One of the characters, *Tomorrow*, tells another, *The Asbestos Industry*, how to improve conditions in the industry.

1046. Whitby, G. Stafford. On the species pilolite, and the examination of a specimen from China. (Mineralogical magazine, London, 1910, v. 15, p. 294–298.) **PWA**

Description and analysis of mountain leather from Süchwan.

1047. White, J. Fleming. Asbestos stopper for combustion tubes. (Chemical news, London, 1881, v. 44, p. 65–66.) **PKA**

1048. Whitworth, M. Cyprus and its asbestos industry. illus. (Mining magazine, London, 1928, v. 39, p. 143–150.) **VHA**

1049. Why no grading of crudes. (Asbestos, Philadelphia, 1923, v. 4, no. 9, p. 6.) **VHA**

African crudes are graded. Editor explains why Canadian crudes are not.

1050. Why a tariff? (Asbestos, Philadelphia, 1921, v. 3, no. 1, p. 29–30, 32.) **VHA**

Also in *Canadian mining journal*, Gardenvale, 1921, v. 42, p. 578 (with editorial comment, p. 571–572), *VHA*.

1051. Wibel, F. Der Faserquarz vom Cap — eine Pseudomorphose nach Krokydolith. (Neues Jahrbuch für Mineralogie, Geologie und Palaeontologie, Stuttgart, Jahrg. 1873, p. 367–379.) **PWA**

1052. Wild, R. L. R. Asbestos mattress covering. illus. (Asbestos, Philadelphia, 1921, v. 3, no. 6, p. 5–8, 10.) **VHA**

Describes "featherweight" brand made by the Waite-Wild Asbestos Company.

1053. Will Asbestos pay a common dividend this year? (Canadian mining journal, Gardenvale, 1924, v. 45, p. 1175.) **VHA**

1054. Willard, Arthur Cutts, and L. C. Lichty. A study of the heat transmission of building materials. Urbana, Ill.: University of Illinois [1917]. 60 p. diagrs., tables. illus. 8°. (University of Illinois. — Engineering Experiment Station. Bulletin no. 102.) **VDA**

See p. 37 for results on asbestos sheets and boards.

1055. Williams, A. G. Pryce. Asbestos in the Union of South Africa. illus. map. (Asbestos, Philadelphia, 1923, v. 5, no. 2, p. 5, 7–8, 11; no. 3, p. 19–20, 22.) **VHA**

Has a map of mining districts, also a list of producers.

1056. Willis, C. E. The asbestos fields of Port-au-Port, Newfoundland. (Engineering and mining journal, New York, 1894, v. 58, p. 586.) **VHA**

Brief abstract of communication to the Mining Society of Nova Scotia.

1057. Wills, J. Lainson. Some misconceptions concerning asbestos. (Engineering and mining journal, New York, 1893, v. 56, p. 75.) **VHA**

Comments on the communications of J. T. Donald and A. L. Chester. States that amphibole represents the true asbestos.

1058. Wilson. A letter from Mr. Wilson to the publisher, giving an account of the Lapis amianthus, asbestos, or Linum incombustible, lately found in Scotland. (Royal Society of London, Philosophical transactions, London, 1701, no. 276, p. 1004–1006.) * **EC**

Author is inclined to attribute a vegetable origin to his sample.

1059. Wilson, Hewitt. Notes on terra cotta slips with reference to the use of asbestos and chlorite mica. (American Ceramic Society, Journal, Easton, Penn., 1920, v. 3, p. 114–133.) **VNE**

Abstract in *Journal of the Society of Chemical Industry*, 1920, v. 39, p. 408a, *VOA*.

1060. Wilson, R. C. The asbestos deposits of the Pilbara and West Pilbara goldfield, northwest division. (Western Australia. — Geological Survey, Annual progress report for 1921, Perth, 1922, p. 39–49.) †† **PTB**

Describes occurrence and gives analyses.

1061. —— Report on asbestos at Goomalling. (Western Australia. — Geological Survey, Annual progress report for 1922, Perth, 1923, p. 67–68.) †† **PTB**

Occurrence of anthophyllite, with analysis.

1062. Winchell, Newton Horace, and A. N. Winchell. Elements of optical mineralogy; an introduction to microscopic petrography. Part II: Descriptions of minerals with special reference to their optic and microscopic characters. New York: John Wiley & Sons, Inc., 1927. xvi, 424 p. illus. 2. ed. 8°. **PWH**

See anthophyllite, p. 202; tremolite and actinolite, p. 210; chrysotile, p. 228.

1063. Wisehart, M. K. A fibrous mineral and how we all make use of it. illus. (In his: Marvels of science. New York, 1928. p. 154–169.) **V**

1064. Wiser, Friedrich. [Bergkork und Bergleder.] (Neues Jahrbuch für Mineralogie, Stuttgart, 1845, Jahrg. 1845, p. 304–305.) **PWA**

Describes mountain cork from Piedmont; mountain leather from Zermatt.

1065. Wood, N. F. Asbestos packings. Their wide use — a few selling points. illus. (Asbestos, Philadelphia, 1920, v. 1, no. 12, p. 5–8, 10, 13.) **VHA**

1066. Woodward, John. An attempt towards a natural history of the fossils of England in a catalogue of the English fossils in the collection of J. Woodward, M. D... London: F. Fayram, 1728–29. 2 v. in 1. 8°. **VHE**

See v. 1, p. 75: "Talky bodies that are fissil and easily disposed to split; being composed of fibres, generally streight, and lying parallel to each other."

1067. Woolsey, W. J. Asbestos. (Canadian mining journal, Toronto, 1915, v. 36, p. 87.) **VHA**

Pros and cons of endeavors to establish manufacturing in Canada.

1068. —— Asbestos history. (Canadian mining journal, Toronto, 1912, v. 33, p. 745–746.) **VHA**

History of Canadian industry.

1069. —— Notes on asbestos veins and the mineral nephrite. illus. (Canadian mining journal, Toronto, 1913, v. 34, p. 519.) **VHA**

1070. —— Notes on recent developments in asbestos mining in Quebec. illus. (Canadian Mining Institute, Journal, Montreal, 1911, v. 13, p. 408–413.) **VHA**

Describes mining and milling methods, with a flow-sheet.

Abstracted in *Canadian mining journal,* Toronto, 1910, v. 31, p. 434–435, *VHA; Mining world,* 1910, v. 32, p. 1231–1232, *VHA.*

1071. —— Quebec asbestos industry prospers; chrome unsettled. Market good for all grades of asbestos. Labor situation quiet. (Engineering and mining journal, New York, 1920, v. 109, p. 624–625.) **VHA**

1072. Young, George Albert. A descriptive sketch of the geology, and economic minerals of Canada. Ottawa: Government Printing Bureau, 1909. 151 p., 1 map, 77 pl. 8°. (Canada. — Geological Survey.) **VHCB**

Brief statement of occurrence and character of veins.

1073. Young, James Howard. How "asbestos-protected metal" was developed commercially. illus. (Chemical and metallurgical engineering, New York, 1923, v. 28, p. 244–247.) **VOA**

Briefly describes manufacture and cites advantages.

1074. Zappe, Joseph Rudolph. Mineralogisches Hand-Lexicon. Oder: Alphabetische Ausstellung und Beschreibung aller bisher bekannten Fossilien, nach ihrer alten und neuen Nomenklatur und Charakteristik ... Wien: C. F. Beck, 1817. 2 v. 8°. **PWD**

Brief characterizations of various varieties.

1075. Zdarsky, A. Die Eruptivgesteine des Troodod-Gebirges auf der Insel Cypren und seine Asbestlagerstätten. (Zeitschrift für praktische Geologie, Berlin, 1910, Jahrg. 18, p. 340–346.) **PTA**

Abstract in *India rubber journal,* London, 1911, v. 41, p. 429.

PATENTS

ABBREVIATIONS

Aus.: Auszüge aus den Patentschriften.
Asb.: Asbestos, Philadelphia.
Can. Pat. Off. rec.: Canadian Patent Office record.
Chem. abs.: Chemical abstracts (American).
Chem. Ap.: Chemische Apparatur.
Gum. Zeit.: Gummi Zeitung.
Ind. rub. j.: India rubber journal.
Ind. rub. wld.: India rubber world.
J. S. C. I.: Journal of the Society of Chemical Industry.
Mon. sc. B.: Moniteur scientifique (Choix de brevets, supplément).
Rec.: Recueil des brevets d'invention.

UNITED STATES

The reports of the Commissioner of Patents, 1845–1871, contain abstracts. The Library has specifications, 1871 to date.

1076. Johns, H. W. 76773. 1868.
Roofing compound.

1077. Johns, H. W. 81641. 1868.
Roofing fabric.

1078. Stevens, C. A. 112649. 1871.
Cleaning and preparation. Abstract only.

1079. Stevens, C. A. 112650. 1871.
Removal of silica by use of fluorine gas or by hydrofluoric acid. Abstract only.

1079a. Stevens, C. A. 112651. 1871.
Machinery for manufacture of packing. Abstract only.

1080. Rosenthal, J. S. 130245, 130537–38. 1872.
Treatment of asbestos for spinning.

1081. Rosenthal, J. S. 130663. 1872.
Pulp and slabs.

1082. Bartholow, A. J. 151345. 1874.
Process of treating by sudden immersion from boiling heat to cold water.

1083. Colby, J. N. 147610. 1874.
Roofing tile.

1084. Johns, H. W. 230945. 1880.
Asbestos sheet. Fibrous asbestos united to sheathing by silicate of soda.

1085. Johns, H. W. 230946. 1880.
Flexible sheet, wadding, or batting of asbestos united to sheathing by gelatinous substance.

1086. Hibbard, F. M. 249239. 1881.
Asbestos roof paint of asbestos, litharge, gypsum, and coal tar.

1087. Johns, H. W. 248324. 1881.
Process of pressing asbestos sheet.

1088. Amyot, J. B. 281951. 1883.
Waterproof preparation using heated solution of isinglass, gelatine (or glue), glycerine, and bichromate of potash.

1089. Johns, H. W. 290239. 1883.
Asbestos cloth.

1090. Line, F. 333138. 1885.
Cementing of asbestos board or paper to tarred felt or paper.

1091. Martin, R. H. 354158. 1886.
Non-conducting sheet composed of thin slivers of asbestos imposed or coiled upon each other.

1092. Sperry, E. A. 343651. 1886.
Vitrified asbestos, using silicates.

1093. Jackson, Charles. 359156. 1887.
Hardened asbestos.

1094. Faure, C. A. 389210. 1888.
Preparing sheet asbestos, using soluble salt and a silicate.

1095. Reed, J., and L. Reed. 387368. 1888.
Asbestos-faced felt for boiler covering.

1096. Church, B. E. 405201. 1889.
Composition, using broken asbestos and solution of rubber and naphtha.

1097. Deeds, J. B. 400755–56. 1889.
Packing. Asbestos is spun, shaped, and incorporated with plumbago, oil, and rosin.

1098. Johns, H. W. 408838. 1889.
Asbestos sheets.

1099. Roberts, I. L. 442335. 1890.
Preparation of electrical diaphragms used in batteries. Exposes asbestos board to the action of acid.

1100. Cranbourne, H. P. 455638. 1891.
Apparatus for separating asbestos from crushed rock.

1101. Johns, H. W. 461579. 1891.
Process of demagnetizing asbestos.

1102. Jaqui, F. W., jr. 483560. 1892.
Method of affixing manufactured asbestos to pipes, etc.

1103. Woodward, A. S. 553091. 1896.
Apparatus for reduction of fiber.

Patents — United States, continued.

1104. Grote, L. 595168. 1897.
Moldable mass or articles, using water-glass, glue, formaldehyde, and alumina, baryta or strontia salt.

1105. Lamprecht, C. 664873. 1901.
Boiler-covering of asbestos ribs and superposed felt plates.

1106. Wuensche, Adolf. 684032. 1901.
Gum. Zeit., 1901, Jahrg. 16, p. 173.
Composition, using silicon fluoride.

1107. Heany, J. A. 703199. 1902.
J.S.C.I., 1902, v. 21, p. 979.
Water-, acid-, and fireproof construction.

1108. Heany, J. A. 703198, 703200–01. 1902.
J.S.C.I., 1902, v. 21, p. 979.
Insulator for metallic surfaces.

1109. Ibotson, T. H., and R. Meldrum. 769087. 1904.
Millboards, slates, plates, or tiles. Magnesium salts as binders.

1110. Foulds, A. J., and H. A. Foulds. 807814. 1905.
Asbestos thread.

1111. Todd, H. C., and C. Mayr. 796164. 1905.
J.S.C.I., 1905, v. 24, p. 926.
Fillers for asbestos fibers, using silicates and water, with baking process.

1112. Hipple, H. 828114. 1906.
Chem. abs., 1907, v. 1, p. 123; Gum. Zeit., 1906, Jahrg. 21, p. 282.
Vulcanized asbestos composition applicable to paper or boards.

1113. Norton, Charles L. 847293. 1907.
Asbestos wood; using magnesium compound.

1114. Norton, Charles L. 865606. 1907.
Asbestos wood. Asbestos, magnesium hydroxide, and an oxidizable hydrocarbon.

1115. Moeller, W. J. 940265. 1909.
Sectional asbestos covering, using reinforcement bars.

1116. Brabrook, G. H. 972990. 1910.
Asbestos mold for metal castings.

1117. Horton, F. L. 963291. 1910.
Chem. abs., 1910, v. 4, p. 2717.
Making carbonized asbestos fabric.

1118. Schlomann, Alfred. 955360. 1910.
Moisture-resisting insulating substances. Asbestos and resin.

1119. Seigle, W. R. 969202. 1910.
Chem. abs., 1910, v. 4, p. 3291.
Asbestos cement.

1120. Hloch, Franz. 1005706. 1911.
Apparatus for making asbestos slabs and the like.

1121. Horton, F. L. 972110. 1911.
Chem. abs., 1911, v. 5, p. 160.
Wearing surface for brakes or clutches, fire-hose covering, etc.

1122. McKay, F. S. 1010779. 1911.
Asbestos separator.

1123. Hemming, E. 1025268. 1912.
Insulating composition of hard baked asbestos, coal tar pitch, and non-volatile residue of anthracene oil.

1124. Klee, H. 1039413. 1912.
Asbestos sheets.

1125. Mueller, A. R. 1022495. 1912.
Insulating composition of asbestos and tar.

1126. Werner, J. E. 1027163. 1912.
Separator.

1127. Whitney, W. R. 1031498. 1912.
Gum. Zeit., 1912, Jahrg. 26, p. 1962.
Cleansing process using a stream of heated hydrogen.

1128. Arsem, W. C. 1049972. 1913.
J.S.C.I., 1913, v. 31, p. 144; Chem. abs., 1913, v. 7, p. 871.
Purification process, using orthophosphoric acid to remove iron oxide.

1129. Owen, H. L. 1071081. 1913.
Insulating material. Fiber is carded and applied to metal surface.

1130. Pater, C. J. 1067542. 1913.
Chem. abs., 1913, v. 7, p. 3011.
Composition for rendering asbestos waterproof and fireproof.

1131. Owen, L. 1094467. 1914.
Gum. Zeit., 1914, Jahrg. 28, p. 1487.
Method of applying carded fiber to wire.

1132. Whitney, W. R. 1094505. 1914.
Chem. abs., 1914, v. 8, p. 2227; Gum. Zeit., 1914, Jahrg. 28, p. 1488.
Removal of magnetite by oxalic acid.

1133. Atterbury, G. 1163060. 1915.
Chem. abs., 1916, v. 10, p. 381.
Artificial stone into which nails or screws may be driven. Cement, asbestos, cinders and sand.

1134. Moeller, W. J. 1141136. 1915.
Chem. abs., 1915, v. 9, p. 1977.
Waterproofing asbestos millboard.

1135. Nesetril, J. 1138397. 1915.
Apparatus for mixing asbestos and cement, for railway ties.

1136. Rice, L. A. 1123377. 1915.
Drying apparatus.

1137. Warrell, A. 1143153. 1915.
Gum. Zeit., 1915, Jahrg. 29, p. 1291.
Packing, using soapstone, asbestos, and mineral oil.

1138. Bourque, J. N. 1222841. 1917.
J.S.C.I., 1917, v. 36, p. 583–584.
Drying apparatus for asbestos.

1139. Levens, R. 1244870. 1917.
Asbestos sheet connector.

1140. Perkins, C. L. 1243096. 1917.
Chem. abs., 1918, v. 12, p. 210.
Separating laminae of mica, asbestos or similar minerals, using thin flat jet of compressed fluid.

1141. Schroder, E. J. 1218217. 1917.
Chem. abs., 1917, v. 11, p. 1535.
Waterproofed asbestos sheets for building purposes.

Patents — United States, continued.

1142. Bates, William E. 1260625. 1918.
Ind. rub. wld., 1918, v. 58, p. 538.
Plastic composition.

1143. Charlton, H. W. 1256296. 1918.
J.S.C.I., 1918, v. 37, p. 242a; Chem. abs., 1918, v. 12, p. 984.
Fiber separation and production of a new product named asbestos wool.

1144. Crawford, N. D. 1245196. 1917.
Chem. abs., 1918, v. 12, p. 303.
Vibration arresting sheet with metallic stiffening.

1145. Ashenhurst, H. S. 1317852. 1919.
Chem. abs., 1919, v. 13, p. 3301–3302.
Process of separating asbestos from asbestos "sand."

1146. Ashenhurst, H. S. 1317853. 1919.
J.S.C.I., 1920, v. 39, p. 367a; Chem. abs., 1919, v. 13, p. 3301.
Asbestos cement, using double silicate of magnesium and calcium.

1147. Lappen, J. E. 1297480. 1919.
Chem. abs., 1919, v. 13, p. 1629–1630.
Cement-fiber board.

1148. Cilley, O. H. 1338613. 1920.
J.S.C.I., 1920, v. 39, p. 489a; Chem. abs., 1920, v. 14, p. 1878.
Purification process.

1149. Garcin, E. H. 1340535. 1920.
J.S.C.I., 1920, v. 39, p. 489a; Chem. abs., 1920, v. 14, p. 2059.
Fiber separation with water, steam, and mechanical treatment.

1150. Hill, C. L. 1346316. 1920.
J.S.C.I., 1920, v. 39, p. 597a; Chem. abs., 1920, v. 14, p. 2685.
Bleaching process.

1151. Mattison, R. V., jr. 1355406. 1920.
Chem. abs., 1921, v. 15, p. 157.
Asbestos cement suitable for building bricks, etc. Portland cement and finely ground serpentine containing asbestos.

1152. Pike, R. D. 1356309. 1920.
Method for molding magnesia-asbestos insulating coverings.

1153. Ashenhurst, H. S. 1365077. 1921.
J.S.C.I., 1921, v. 40, p. 814a.
Heat-resisting cement for coating iron and steel.

1154. Crossley, P. B. 1394973. 1921.
Use in glass making.

1155. Tillotson, Edward. 1395877. 1921.
Carding engine with two separate feeds for mixing two or more fibres.

1156. Van Nostrand, Charles H., and H. E. SCHULSE. 1392989. 1921.
Process for making fibrous filtering films.

1157. Angers, Alfred. 1419437. 1922.
Asb., 1922, v. 4, no. 1, p. 58.
Asbestos fiber separator.

1158. Fisher, W. C. 1436158. 1922.
Ind. rub. wld., 1923, v. 67, p. 225.
Clutch facing.

1159. Heany, J. A. 1407685. 1922.
Machine for manufacturing asbestos yarn.

1160. Heany, J. A. 1407686. 1922.
Cleaning asbestos and incorporating same with cotton or other fiber.

1161. Heany, J. A. 1439166. 1922.
Asb., 1923, v. 4, no. 8, p. 45.
Reinforced asbestos yarn.

1162. Kempton, W. H. 1431962. 1922.
Asb., 1922, v. 4, no. 5, p. 54.
Waterproof composition. Asbestos, portland cement, linseed oil, and drier.

1163. Kirsch, Louis. 1439556. 1922.
Asbestos sheet cutter.

1164. Mattison, R. V. 1423000. 1922.
Chem. abs., 1922, v. 16, p. 3191; Asb., 1922, v. 4, no. 2, p. 58; Gum. Zeit., 1922, Jahrg. 36, p. 1341.
Composition of asbestos, oil, water, and cement.

1165. Najarian, Jerry. 1427621. 1922.
Insulating composition of asbestos, gum mastique, incense, gum tragacanth, ashes, and white of eggs.

1166. Nanfeldt, E. F. 1437438. 1922.
Asb., 1923, v. 4, no. 8, p. 45.
Reinforced asbestos yarn.

1167. Nelson, Emil A. 1430103. 1922.
Gasket.

1168. Patee, Fred. 1418160. 1922.
Asb., 1922, v. 4, no. 1, p. 57–58.
Building block.

1169. Seigle, W. R. 1436914. 1922.
Composite fireproof building fabric.

1170. Simpson, Sumner. 1414378. 1922.
Brake lining.

1171. Stanley, Frederick C. 1417778–79. 1922.
Process of making friction facing.

1172. Stanley, F. C. 1420882. 1922.
Ind. rub. wld., 1922, v. 66, p. 745; Asb., 1922, v. 4, no. 2, p. 57–58.
Friction facings.

1173. Stanley, Frederick C. 1420883. 1922.
Asb., 1922, v. 4, no. 2, p. 57–58.
Process of making clutch rings for motor cars.

1174. Anderson, R. H. 1458675. 1923.
Asb., 1923, v. 5, no. 4, p. 45.
Apparatus for forming asbestos-cement slabs.

1175. Du Long, Julius. 1442325–28. 1923.
Asb., 1923, v. 4, no. 8, p. 46.
Insulating material using asbestos and cattle hair.

1176. Fisher, William C. 1465389. 1923.
Asb., 1923, v. 5, no. 4, p. 46.
Unwoven brakeband facing.

Patents — United States, continued.

1177. Gillies, W. R. 1470723. 1923.
Asb., 1923, v. 5, no. 6, p. 47.
Insulating tape.

1178. Hawkridge, J., D. Robertson, and C. J. Nairne. 1443221. 1923.
Asb., 1923, v. 4, no. 10, p. 47.
Boiler covering.

1179. Headson, Frank A. 1468634. 1923.
Asb., 1923, v. 5, no. 6, p. 45.
Brake lining.

1180. Heany, J. A. 1451824. 1923.
Apparatus for making asbestos yarn.

1181. Heany, J. A. 1458577. 1923.
Asb., 1923, v. 5, no. 1, p. 45.
Manufacture of asbestos yarn.

1182. Kirschbraun, Lester. 1450319. 1923.
Asb., 1923, v. 4, no. 11, p. 49.
Process of making asbestos friction-clutch rings.

1183. Koester, Herman B. 1447667. 1923.
Asb., 1923, v. 4, no. 10, p. 49.
Table mat.

1184. Parkyn, Herbert A. 1466246. 1923.
Asb., 1923, v. 5, no. 5, p. 45.
Fireproof wallboard.

1185. Davis, N. K. 1484208. 1924.
Chem. abs., 1924, v. 18, p. 1184.
Ore treatment.

1186. Dunham, Henry V. 1489991. 1924.
Adhesive for wood, as veneers, etc. Waterglass and asbestos.

1187. Groten, F. J., jr. 1517360. 1924.
Chem. abs., 1925, v. 19, p. 398.
Composition of asbestos, oil, asphalt, and copal.

1188. Lanhoffer, I. E., and O. E. Lanhoffer. 1514666. 1924.
Asb., 1925, v. 6, no. 7, p. 42.
Molded cement articles.

1189. Moeller, William J. 1493371. 1924.
Asb., 1924, v. 6, no. 1, p. 47.
Asbestos paper.

1190. Rose, Thomas. 1508069. 1924.
Asb., 1924, v. 6, no. 5, p. 46.
Asbestos container.

1191. Schweitzer, E. O., and A. Herz. 1479558. 1924.
Fused cut-out for electrical purposes.

1192. Sulzberger, N. 1518944. 1924.
Chem. abs., 1925, v. 19, p. 577; Asb., 1925, v. 6, no. 7, p. 42.
Cigarette wrapping paper, using colloid binder, oxidizing agent, and cellulose ester.

1193. Waite, Edwin E. 1520917–18. 1924.
Asb., 1925, v. 6, no. 8, p. 45.
Method and machine for producing cops of asbestos roving.

1194. Wilson, Samuel Scott. 1503409. 1924.
Chem. abs., 1924, v. 18, p. 2951; Asb., 1924, v. 6, no. 3, p. 47.
Process of making tiles and sheets.

1195. Buisson, Eugène. 1547408. 1925.
Asb., 1925, v. 7, no. 3, p. 43.
Friction elements.

1196. Drambour, R. 1545132. 1925.
J.S.C.I., 1925, v. 44, p. B714; Chem. abs., 1925, v. 19, p. 2730; Asb., 1925, v. 7, no. 3, p. 42–43.
Separating and cleaning process using caustic alkali and electricity.

1197. Dupree, Thomas B., and H. P. Rhodes. 1535456. 1925.
Asb., 1925, v. 6, no. 12, p. 41.
Packing.

1198. Ehret, Alvin M. 1559564. 1925.
Asb., 1925, v. 7, no. 6, p. 43.
Treatment of pipe and boiler coverings with bicarbonate of magnesia.

1199. Heany, John Allen. 1564238. 1925.
Asb., 1926, v. 7, no. 7, p. 42.
Asbestos insulating medium. Combines cleaning of asbestos with incorporation of cotton.

1200. Horne, G. H. 1549875. 1925.
J.S.C.I., 1925, v. 44, p. B848.
Electrostatic and mechanical separation of asbestos from non-fibrous gang.

1201. Novak, Izador J. 1551045. 1925.
Asb., 1925, v. 7, no. 4, p. 43.
Friction facings.

1202. Overbury, F. C. 1558495. 1925.
Roofing felt.

1203. Sulzberger, N. 1556973. 1925.
Composition. Translucent film made of asbestos and colloidal aluminum silicate and coated with spar varnish.

1204. Whitney, W. R. 1566241. 1925.
Chem. abs., 1926, v. 20, p. 484.
Mat finish on asphalted asbestos board.

1205. Wiese, E. C. 1534477. 1925.
Asb., 1925, v. 6, no. 12, p. 40.
Method of coating asbestos cloth with rubber.

1206. Beckwith, C. J., and R. K. Austin. 1606496. 1926.
Asb., 1927, v. 8, no. 8, p. 46.
Roofing.

1207. Dreher, G. E. 1574562. 1926.
Asb., 1926, v. 7, no. 11, p. 46.
Impregnation of asbestos with wax.

1208. Gillies, W. R. 1594612. 1926.
Insulating tape.

1209. Heany, John Allen. 1585611–26. 1926.
Asb., 1926, v. 8, no. 1, p. 47.
Manufacture of asbestos yarn.

1210. Kobbé, W. H. 1594417. 1926.
Asbestos-cement products impregnated wholly or in part with sulphur.

Patents — United States, continued.

1211. **Schweitzer,** E. O., and A. Herz. 1595360. 1926.
Asb., 1926, v. 8, no. 4, p. 51.
Asbestos board. Asbestos, cement, and oil.

1212. **Simpson,** Sumner. 1578928. 1926.
Clutch facing.

1213. **Stevenson,** H. E. 1580699. 1926.
Asb., 1926, v. 7, no. 11, p. 46–47.
Machine for cleaning, opening, and separating.

1214. **Sulzberger,** N. 1581618. 1926.
Asbestos paper containing aluminium silicate and an oxidizing agent.

1215. **Sulzberger,** N. 1581619. 1926.
Chem. abs., 1926, v. 20, p. 1905; Asb., 1926, v. 7, no. 12, p. 47.
Tissue-like paper of asbestos and an inorganic colloid.

1216. **Bailey,** Claude B., W. W. McCord, and C. Wilkins. 1626110. 1927.
Asb., 1927, v. 9, no. 1, p. 49.
Gasket.

1217. **Beckwith,** Charles J. 1642324. 1927.
Floor construction.

1218. **Dolbear,** S. H., and B. L. Eastman. 1624134. 1927.
Asb., 1927, v. 8, no. 12, p. 45.
Classifying crushed ore.

1219. **Dolbear,** S. H., and V. Zachert. 1624163. 1927.
Asb., 1927, v. 8, no. 12, p. 46.
Method of concentrating fibrous materials.

1220. **Farrington,** Winfield O. 1648391. 1927.
Packing.

1221. **Gow,** J. 1617803. 1927.
Asb., 1927, v. 8, no. 11, p. 46.
Separation process for amosite asbestos.

1222. **Greenstein,** Philip D. 1649110. 1927.
Friction element.

1223. **Heany,** John Allen. 1642495. 1927.
Process of making asbestos paper.

1224. **Hill,** Chester L. 1642204. 1927.
Heat-insulating tape.

1225. **McIntire,** Abe. 1628171. 1927.
Asb., 1927, v. 9, no. 1, p. 51.
Fireproof composition of asbestos, flour, lye, and salt.

1226. **Mattei,** Diego, and A. Mazza. 1627104. 1927.
Asb., 1927, v. 9, no. 1, p. 50.
Apparatus for manufacture of tubes of cement asbestos.

1227. **Nanfeldt,** E. F. 1632620. 1927.
Asb., 1927, v. 9, no. 3, p. 50.
Mechanical cleaning process.

1228. **Obetz,** Guy U., and R. F. Walter. 1640368. 1927.
Dispensing package of asbestos rope or wick.

1229. **Rhodes,** Hampton Pratt. 1627620. 1927.
Asb., 1927, v. 9, no. 2, p. 47.
Flexible metallic packing.

1230. **Rohrer,** John Donald. 1640373. 1927.
Friction lining and process of making the same.

1231. **Switzer,** Elmer E. 1626436. 1927.
Asb., 1927, v. 9, no. 1, p. 50.
Asbestos crown-type packing.

1232. **Trainor,** Edward J. 1629850. 1927.
Asb., 1927, v. 9, no. 3, p. 50.
Apparatus for weaving asbestos cloth.

1233. **Trainor,** Edward J. 1646466. 1927.
Fabric for gasket.

1234. **Arnopol,** Louis M. 1661987. 1928.
Table pad.

1235. **Beshers,** Paul. 1657193. 1928.
Wall board.

1236. **Dolbear,** Samuel H. 1684365–66. 1928.
Asb., 1928, v. 10, no. 6, p. 54.
Process of treating asbestos ore.

1237. **Gerdien,** Hans. 1670659. 1928.
Asb., 1928, v. 9, no. 12, p. 54.
Hard bodies from asbestos effected by heating and high pressure.

1238. **Gillies,** William R. 1661254. 1928.
Pipe covering.

1239. **Heany,** John Allen. 1671425. 1928.
Process and apparatus for making asbestos yarn.

1240. **Heany,** John Allen. 1681234. 1928.
Asb., 1928, v. 10, no. 5, p. 54.
Process and apparatus for making asbestos yarn.

1241. **Heany,** John Allen. 1688620. 1928.
Asb., 1929, v. 10, no. 8, p. 54.
Apparatus for manufacture of yarn.

1242. **Herzog,** Carl. 1670855. 1928.
Asbestos-cement pipes.

1243. **MacIldowie,** John C. 1695253. 1928.
Asb., 1929, v. 10, no. 9, p. 54.
Process for finishing the surfaces of bonded asbestos.

1244. **Mattison,** Richard V. 1678345–46. 1928.
Asb., 1928, v. 10, no. 4, p. 54.
Millboard.

1245. **Niederurnen,** C. H. 1670855. 1928.
Asb., 1928, v. 9, no. 12, p. 54.
Asbestos-cement pipes.

1246. **Novak,** Izador J. 1672538. 1928.
Friction element. Asbestos base with phenol condensation product.

1247. **Novak,** Izador J. 1672539. 1928.
Impregnating the base of friction elements, using negative electrical charge.

1248. **Novak,** Izador J. 1672988. 1928.
Piled sheet and method for producing same.

Patents — United States, continued.

1249. Novak, Izador J. 1677842. 1928.
Asb., 1928, v. 10, no. 3, p. 50.
Brake lining.

1250. Novak, Izador J. 1692136. 1928.
Asb., 1929, v. 10, no. 7, p. 54.
Friction element. Asbestos and sulphite liquor.

1251. Seigle, Wm. R. 1689079. 1928.
Asb., 1929, v. 10, no. 7, p. 54.
Sheet roofing.

1252. Slade, Edward. 1681371. 1928.
Clutch disk.

1253. Stanley, Frederick C. 1655827. 1928.
Asb., 1928, v. 9, no. 9, p. 48.
Friction member and insert.

1254. Steele, Willard R. 1696614. 1928.
Asb., 1929, v. 10, no. 9, p. 54.
Heat resistant composition suitable for arc deflectors.

1255. Wallace, Benjamin F. 1678659. 1928.
Waterproof heat insulation.

1256. Wardell, Henry R. 1689985. 1928.
Asb., 1929, v. 10, no. 7, p. 54.
Ready roofing.

1257. Williams, Samuel A. 1664473. 1928.
Asb., 1928, v. 9, no. 12, p. 54.
Smoke jack.

1258. Evans, Richard J. 1700037. 1929.
Asb., 1929, v. 10, no. 10, p. 59.
Brake lining.

1259. MacIldowie. 1708842. 1929.
Asb., 1929, v. 10, no. 11, p. 57.
Thick sheets of bonded asbestos.

1260. Rose, Thomas. 1714438. 1929.
Asb., 1929, v. 10, no. 12, p. 58.
Method of separating asbestos.

GREAT BRITAIN

The Library has complete specifications and classified abridgments.

1261. Fontaine Moreau, P. A. 2071. 1853.
Asbestos lamp wick, prepared with nitrate of lead, sulphide of antimony, or chlorate or sulphate of potash.

1262. Maniere, E. 1413. 1853.
Asbestos paper.

1263. Scarlett, J. S., and W. PASSMORE. 936. 1853.
Asbestos lamp wick.

1264. Elce, John, and GEORGE HAMMOND. 2647. 1855.
Lamp wick.

1265. Fordred, J. 2518. 1856.
Lamp wick.

1266. Autran, A. L. 145. 1857.
Candle and lamp wicks.

1267. Houghton, V. 747. 1863.
Lamp wick.

1268. Houghton, V. 2305. 1863.
Lamp wick.

1269. Monckton, E. H. C. 2549. 1863.
Furnace lining. Mica or asbestos, clay, black oxide of iron and silica.

1270. Marshall, W. A. 362. 1865.
Insulation for telegraph wire.

1271. Malam, W. 1283. 1868.
Refractory substances. Asbestos or talc combined with fire-clay, firebrick, or other refractory.

1272. Johnson, J. H. 2510. 1869.
Artificial stone.

1273. Johnson, J. H. 1289. 1870.
Fireproof compositions for safes, etc. Plaster of Paris, asbestos, salts containing water of crystallization, glycerine, gelatine, or mucilage.

1274. Hyatt, T. 3124. 1871.
Fireproof compositions. Asbestos may or may not be added to the recipes.

1275. Fish, W. S. 2671. 1872.
Packing.

1276. Lochhead, W. 2518. 1872.
Fireproof compositions for safes. Asbestos used alone or with other fibrous materials.

1277. Hyatt, T. 3256. 1873.
Fireproof coverings and compositions. Asbestos-covered wire is woven into fabrics. Process of making asbestos felt. Process of consolidating asbestos pulp on wire netting. Process of forcing asbestos dough, mixed with flour, through apertures to form rope or ribbon.

1278. Hyatt, T. 3380. 1873.
Fireproof coverings. Process of applying asbestos by pressure to metal surfaces.

1279. Hyatt, T. 3684. 1873.
Method of applying asbestos to metal surfaces. Mortar for plastering. Artificial stone.

1280. Hyatt, T. 4241. 1873.
Attaches fibers to wires, etc. to form "chenille," and to various backings. Combines asbestos with anti-friction metal. Steam packing and asbestos wadding. Various compositions. Asbestos stone, bricks and tiles.

1281. Cleghorn, J., and T. G. PATTERSON. 1145. 1874.
Braided asbestos tapes, bands, etc., used for packings, pipe jointing, etc. See *Engineering and mining journal*, 1875, v. 19, p. 51.

1282. Hyatt, T. 478. 1874.
Broad patent for sheets, felt, fireproof glaze for paper, filters, packing, cords, reinforced cords, and purification using hydrofluoric acid.

1283. Smyth, S. R., and J. SIMPSON. 3840. 1874.
Refractory substances. Silica, plumbago, asbestos, blood.

1284. Grünbaum, H. A. O. E. 3923. 1876.
Fireproof compositions.

1285. Dudgeon, A. 700. 1877.
Furnace lining. Clay, silicate of soda or potash, stannate of soda.

Patents — Great Britain, continued.

1286. Hodges, J., and J. W. Butler. 3509. 1877.
Pipes, emery wheels, etc. Asbestos, oxide of magnesium, sulphur, emery, silex, sal-ammoniac, and chloride of magnesium.

1287. Hyatt, T. 4513. 1877.
Fireproof floors, roofs, and other building construction. Asbestos and soluble glass.

1288. Wotherspoon, J. 3769. 1877.
Fireproof paper and boards. Mixes asbestos and wood-pulp.

1289. Wotherspoon, J. 3946. 1877.
Fireproof paper. Tungstate or muriate of soda, and sulphate of aluminium.

1290. Greenacre, T., and C. F. T. Young. 2038. 1878.
Fireproof material for use with fire-escapes. Asbestos fibers on wire gauze.

1291. Wells, C. A. 3715. 1878.
Fireproof coverings. Asbestos woven with wire.

1292. Haddan, H. J. 5093. 1879.
Paper rollers. Asbestos and slag-wool.

1293. Parry, E., and T. Henry. 3554. 1880.
Sizing for asbestos goods.

1294. Pitt, S. 3376. 1880.
Sheathing.

1295. Wedekind, H. 5255. 1880.
Converter lining. Asbestos, alumina, kaolin, hydrogen silicate, magnesium chloride.

1296. Dade, D. H. 1196. 1881.
Sound-deadening composition. Asbestos, glutinous material, trass, tannic extract.

1297. Pitt, S. 4687. 1881.
Sheets.

1298. Abel, C. D. 1468. 1882.
Fireproof and waterproof plates. Zinc oxide, silicate of potash, casein, chloride of zinc.

1299. Cross, G. J. 2957. 1882.
Fireproof composition. Impregnation of wood by asbestos and other substances.

1300. Haddan, H. J. 902. 1882.
Method of applying asbestos to cores of wire, linen, hemp, etc.

1301. Mountford, C. J. 835. 1882.
Fireproof paint. Asbestos, aluminate of potash or soda, silicate of potash or of soda.

1302. Parkes, A. 5388. 1882.
Fire and waterproof compositions for electrical insulation, battery cells, etc. India rubber, gutta percha, in numerous combinations with other substances.

1303. Tidcombe, George. 1514. 1882.
Pulping machine.

1304. Abel, C. D. 2087. 1883.
Membranes or media for eliminating micro-organisms from liquids and gases.

1305. Clark, A. M. 941. 1883.
Fireproof paper, etc. Sodium or potassium chloride, mica, talc, plaster, and color.

1306. Clark, A. M. 2562. 1883.
Fireproof covering. Superheater pipes treated with plumbago, asbestos paper, and fireclay.

1307. Dewrance, John. 4950. 1883.
J.S.C.I., 1884, v. 3, p. 408.
Renders asbestos non-corrosive to iron by washing out impurities with caustic soda.

1308. Imray, J. 4600. 1883.
Fireproof covering. Metal network covered with mixture of asbestos, and magnesia, gypsum or lime.

1309. Leask, A. R., and E. Torrini. 2924. 1883.
Artificial stone. Bone-dust, asbestos powder, farina, albumen, coal ash, horn cuttings, and slate.

1310. Overton, S. E. 2303. 1883.
Fireproof coverings. Wood or paper pulp, asbestos and selenitic cement.

1311. Pitt, S. 5783. 1883.
Woven fabric.

1312. Robbins, E. 4773. 1883.
Cement.

1313. Brandon, D. H. 7304. 1884.
J.S.C.I., v. 4, 1885, p. 284.
Asbestos boards, using oxide of magnesium.

1314. Dulfus, B. L. M. 3780. 1884.
Fireproof paper pulp. "Fossil powder," silicate of soda, animal fiber, resinous soap, ceresin.

1315. Johns, H. W. 9091. 1884.
Paper, paper-board, etc.

1316. Kirlew, R. L. 2885. 1884.
Acid- and heat-proof paper boards.

1317. Musgrove-Musgrove, J., and H. Musgrove-Musgrove. 16006. 1884.
Fireproof composition. Asbestos and plaster or stucco or glue.

1318. Nagel, J. 2154. 1884.
Fireproof coverings and compositions. Improvement on British patent (Abel's) 1486 of 1882, substituting for the zinc oxide: magnesia, gypsum or lime; and in place of zinc chloride some other metallic chloride or sulphate of alumina.

1319. Rhodes, B. 11732. 1884.
Paper boards for joint making.

1320. Tickelpenny, W. J. 5064. 1884.
Fireproof composition. Fireclay, asbestos or slag cotton, Portland cement, alum.

1321. Toope, C. 9018. 1884.
Fireproof covering and composition. Pipeclay, silicate of soda, silicate cotton or asbestos fiber.

1322. Turner, S., and J. Bell. 14607. 1884.
Fireproof covering. Asbestos thread as warp; wire as weft.

1323. Armstrong, John. 14846. 1885.
System of wire strengthening and toughening for brittle and elastic materials.

1324. Bolas, T. 14468. 1885.
Photographic method of ornamenting asbestos fabrics.

1325. Heys, W. E. 4151. 1885.
J.S.C.I., v. 4, 1885, p. 508.
Fireproof and waterproof paper. Ammonium sulphate, zinc chloride, resin soap, and baryta white.

1326. Imray, Oliver. 5864. 1885.
J.S.C.I., 1885, v. 4, p. 530.
Fine grinding of asbestos with granulated crystalline carbonates and dissolving the latter with acids. Product made into micromembrane for filtering.

Patents — Great Britain, continued.

1327. Jackson, C. 11976. 1885.
Hardened asbestos, using a binder and application of heat and heavy pressure. Also reinforced sheets.

1328. Finlayson, W. 10891. 1886.
J.S.C.I., 1887, v. 6, p. 300.
Non-conducting sheets built up from superimposed asbestos fibers.

1329. Hardingham, G. G. M. 4664. 1886.
Packing, using asbestos and india-rubber.

1330. Heys, W. E. 5563. 1886.
Manufacture of water- and fire-proof paper, millboard, etc.

1331. Jackson, Charles. 12179. 1887.
J.S.C.I., 1888, v. 7, p. 833.
Filter mats and other fabrics or sheets. Asbestos fibers sprayed with varnish and allowed to dry.

1332. Marshall, G. F. 2983. 1887.
Combination of carded asbestos and coal pitch subjected to heat to form filtering or decolorizing compound.

1333. Dewrance, J., and B. E. Church. 15236. 1888.
J.S.C.I., 1889, v. 8, p. 808.
Process of cementing asbestos, using india rubber solution and water.

1334. Furstenburg, R. W. 17693. 1888.
Paper boards. Zinc oxide, curd soap, alum, carbonate of soda, sugar of lead, and zinc chloride.

1335. Guy, J. P. 1549. 1888.
Refractory composition. Alumina and asbestos.

1336. Johns, H. W. 18031. 1888.
Fireproof compositions and cements. Finely divided sponge, with or without asbestos or hair, a body material, and a binder.

1337. Mitchell, W. 11590. 1888.
Fireproof composition. Carpets and underfelts are made of asbestos woven with animal or other fiber.

1338. Snell, C. S. 10107. 1888.
Fireproof paper. Pulp mixed with asbestos, alum, and borax; or tallow soap, and alum; or paper may be coated with sodium silicate, or alum and sulphate of copper, or a mixture of soda, silicious earth, and charcoal, or asbestos paint.

1339. White, C. M. 13329. 1889.
Fireproof and waterproof roofing. Asbestos sheet is treated with plumbago and treated electrolytically with copper, and then immersed in molten lead, tin, zinc, or alloy of any two of them.

1340. Beckmann, B. J. 16546. 1890.
Machine for wire reinforcement.

1341. Johns, H. W. 12248. 1890.
Fireproof coverings and compositions. Asbestos, wood pulp, sawdust, magnesia, clay, earths, plaster of Paris, mineral wool, etc.

1342. Johns, H. W. 19201. 1890.
Sound-deadening and fireproof compositions. Woodpulp, plaster of Paris, chalk, diatomaceous earth, magnesia, ground asbestos, clays, and certain fibrous materials.

1343. Johns, H. W. 19202. 1890.
Sound-deadening and fireproof compositions. Sponge, asbestos, metal oxides, chalk, powdered minerals, metal turnings, sizing, silicate of soda, etc.

1344. Westphalen, Rudolf, Graf. 8831. 1891.
J.S.C.I., 1892, v. 11, p. 242.
Asbestos roofing.

1345. Crompton, R. E. B. 5094. 1892.
Fireproof coverings for walls. Asbestos sheets are embossed and decorated with asbestos paint.

1346. Mitchell, G. 19018. 1892.
Fireproof coverings, with or without wire-gauze or woven material. Silicious cement, asbestos pulp.

1347. Taylor, G. C. 11226. 1892.
Cements, fireproof compositions, and refractories. Asbestos, sand, sodium silicate, and water.

1348. Field, A. E. H. 15622. 1893.
J.S.C.I., 1894, v. 13, p. 788.
Asbestos packing.

1349. Snedekor, C. T. 6723. 1893.
Fireproof compositions for electric conductors. Magnesia, talc, asbestos, glue, glycerine, bichromate of sodium or potassium, and lampblack.

1350. Kublewein, A. 4632. 1894.
J.S.C.I., 1895, v. 14, p. 273.
Asbestos cement.

1351. Preston, R., and T. Thornley. 21477. 1894.
Lining for paper pulp digesters and other metallic vessels. Asbestos, litharge, crushed slag.

1352. Williams, C. 19580. 1894.
Composition for sheets, slabs, etc. Asbestos, barium chloride or magnesium chloride.

1353. Abel, C. D. 24887. 1895.
J.S.C.I., 1896, v. 15, p. 261.
Asbestos filters.

1354. Allison, C. A. 13073. 1895.
Substitute for wood for ornamental work. Woodpulp, asbestos, color, gelatine, silicate of soda, tungstate of soda.

1355. Creswell, L. 3123. 1895.
J.S.C.I., 1896, v. 15, p. 113.
Dyeing of asbestos fabrics.

1356. Grote, L. 24163. 1895.
J.S.C.I., 1896, v. 15, p. 888.
Plastic material for moulding.

1357. Imschenetzky, Alexander. 5254. 1895.
Gum. Zeit., 1899, Jahrg. 13, p. 511.
Fireproof compound using asbestos and silica.

1358. Germain, J., and L., and H. Boisne. 8078. 1896.
J.S.C.I., 1897, v. 16, p. 428.
Fabric for filters.

1359. Hawes, D. M. 1228. 1896.
J.S.C.I., 1897, v. 16, p. 245–246.
Battery cells or vessels to contain acids or other chemicals.

1360. Hutchings, Charles Robert. 7900. 1896.
Improvement in band brakes. Probably first use of asbestos for lining.

Patents — Great Britain, continued.

1361. Kraner, O. 29654. 1896.

Sound deadening cement. Magnesium chloride, asbestos, water, magnesia or magnesium carbonate, with materials like cork, bark, and sawdust added. By using Canadian asbestos an acid-proof composition is obtained suitable for chemical laboratories.

1362. Klinger, Richardt. 16379. 1897.

J.S.C.I., 1897, v. 16, p. 796; Gum. Zeit., 1897, Jahrg. 12, p. 83.

Insulating and packing fabric named "asbestos rubber." Asbestos and india-rubber solution.

1363. Grote, L. 25171. 1898.

J.S.C.I., 1899, v. 18, p. 500.

Softening, forming, and impregnation of asbestos fabrics or paper to render them suitable for accumulator casings and other insulating purposes.

1364. British Uralite Co. 18747. 1899.

Fireproof paper. Silicate of sodium and bicarbonate of sodium.

1365. Nixon, A. 18543. 1900.

Composition. Sulphide of antimony, asbestos powder, rubber dough.

1366. Raphael, M., and L. Elias. 16010. 1900.

Insulating and packing material using asbestos and mica.

1367. Abel, C. D. 13206. 1901.

J.S.C.I., 1902, v. 21, p. 707.

Impregnating with silica, objects made of asbestos fiber.

1368. Bernfeld, J. 16493. 1901.

J.S.C.I., 1902, v. 21, p. 1143; Gum. Zeit., 1903, Jahrg. 17, p. 432.

Asbestos for electrolytic and filtering purposes by immersing in molten aluminium.

1369. Graham, C. K. 13452. 1901.

Artificial stone. Asbestos, loading material, and hydrated cement.

1370. Hitchins, C. 4630. 1901.

Fireproof covering. Asbestos paper is backed by a mixture of asbestos and plaster (or cement), strengthened by wire netting.

1371. Kronstein, A. 2679. 1901.

Rendering asbestos waterproof and chemical proof by impregnating with wood-oil, either alone or with other oils and resins.

1372. Martin, R. H. 21847. 1901.

Fireproof coverings for boilers, pipes, etc. Short fibered asbestos applied to asbestos sheets by means of paste, sodium silicate, etc.

1373. Nobis, L., and A. Wenzel. 16508. 1901.

Composition for artificial stone, slabs, etc. Blast furnace slag, asbestic, portland cement. Asbestos braids are introduced into the mass during moulding process.

1374. Raphael, M. 11856. 1901.

Ind. rub. j., 1902, v. 23, p. 216–217.

Refractory. Asbestos articles coated with water glass; or they may be brushed over with fluxes or glass or porcelain enamels.

1375. Sborowitz, S. 12073. 1901.

Artificial marble. Red lead, asbestos, shellac.

1376. Ellis, G. B. 21915. 1902.

Preparing short fibers for spinning.

1377. Heany, J. A. 17745. 1902.

Gum. Zeit., 1903, Jahrg. 17, p. 1024.

Insulation. Mixture of linseed oil, litharge, and red lead applied hot to asbestos covering of the wires.

1378. Heany, J. A. 17746. 1902.

Gum. Zeit., 1903, Jahrg. 17, p. 1024.

Insulating covering for wires.

1379. Heany, J. A. 17748. 1902.

Fireproof covering for wires. Sodium silicate, manganese dioxide, asbestos.

1380. Heany, J. A. 27786. 1902.

Fireproof coverings and compositions. Material is covered with asbestos and then treated with a mixture of alumina, lime, boric acid or borates, and a cohesive substance.

1381. Heinrich, K., and T. Haardt. 16100. 1902.

Fireproof material for safes, etc. Asbestos, blast-furnace dust, and portland cement.

1382. Ibotson, T. H., and R. Meldrum. 20841. 1902.

J.S.C.I., 1903, v. 22, p. 1088; Gum. Zeit., 1903–04, Jahrg. 18, p. 101, 457.

Shingles, boards, etc., using magnesium chloride, magnesium oxide, and a silicate.

1383. Marson, C. 7550. 1902.

Cement. Magnesite, magnesium chloride and asbestos.

1384. Thompson, W. P. 4137. 1902.

Fireproof compositions. Asbestos, powdered cork, and powdered puzzuoalana.

1385. Krueger, F., and J. Denkelmann. 3843. 1903.

Refractory; artificial stone. Gypsum, asbestos, fused sodium or potassium silicate.

1386. Stempel, O. A. 12645. 1903.

Fireproof covering and composition. Asphalt, asbestos, and sand.

1387. Wale, A. E. 9385. 1903.

Fireproof covering. Wire fabric filled with asbestos.

1388. Hardingham, G. G. M. 26786. 1904.

Fireproof covering. Asbestos braid applied to paper covering and then passed through agglutinant bath.

1389. Heany, J. A. 6319. 1904.

Acid-, water- and fireproof insulation for electric conductors. Flocculent asbestos is twisted into adhesive mass covering the bare wire.

1390. Heinrich, M. F. 3444. 1904.

Packing. Core of wire or fiber is covered with a composition of resin, slate, asbestos flock or waste, and tallow.

1391. Marga, U. A. 25128. 1904.

J.S.C.I., 1905, v. 24, p. 136.

Fire-proof, acid-proof and electrically insulating material. Powdered asbestos, oxide of lead, manganese dioxide, linseed oil.

1392. Mayhew, G. S. 17603. 1904.

Sheets. Wooden base covered with composition of ground asbestos, infusorial earth, fireproofed sawdust, starch, plaster of paris, and unslaked lime.

1393. Thiébaut, C. 12888. 1904.

Asbestos-covered paper boards.

Patents — Great Britain, continued.

1394. Watson, J. B. 25702. 1904.
J.S.C.I., 1905, v. 24, p. 136.
Fireproof sheet.

1395. Berner, E. 14117. 1905.
Fireproof door. Method of applying the asbestos.

1396. Davies, R. 24925. 1905.
Stoker's glove.

1397. Eissrich, O. 577. 1905.
Fireproof coverings and compositions. Asbestos, sand, and water glass incorporated under pressure. May be used as axle-bearing by saturating upper layer with graphite.

1398. Jacob, F. D. 14288. 1905.
Method of cementing asbestos to sheet metal.

1399. Klobukowski, W. P. 8900. 1905.
Cement for joining metal plates of stove consists of mixture of fire-clay, burnt clay, asbestos, and water. For filling concave fireplates: fire-clay, graphite, carborundum, asbestos, and other substances.

1400. Price, E. F., G. E. Cox, and J. G. MARSHALL. 5984. 1905.
Electrodes for electric furnace. Asbestos mixed with coal and siloxicon.

1401. Romney, H. R. 9439. 1905.
Casings for electric conductors. Asbestos, china clay, magnesite, sodium silicate.

1402. Hartenstein, H. L. 10161. 1906.
Furnace lining. Asbestos, pitch (or tar or resin).

1403. Petty, F., and W. PETTY. 16869. 1906.
Asbestos slab. Woven rush reeds covered with mixture of coke breeze, plaster of paris, lime, sawdust, asbestos (optional).

1404. Speer, A. V. 14297. 1906.
Covering for floors, walls, ceilings, etc. Asbestos, silica, magnesium chloride, magnesite.

1405. Trocquenet, C. 8167. 1906.
Substitute for celluloid.

1406. Watson, W. 27073. 1906.
Fireproof and waterproof covering. Woven asbestos coated with balata.

1407. Brookes, A. G. 2460. 1907.
Refractory. Asbestos and magnesium oxide.

1408. Muller, Edmund. 23093. 1907.
Chem. abs., 1909, v. 3, p. 2221.
Moldable composition of asbestos, pitch, and phenol.

1409. Schlentheim, L., and DIESPEKER, LTD. 7179. 1907.
Cement. Asbestos, magnesium carbonate, flour of wood.

1410. British Thomson-Houston Co. 2127. 1909.
Electric insulating material. Silica and hydrate of an alkaline earth, with asbestos optional.

1411. Cowper-Coles, S. O. 22118. 1909.
Refractory. Fire-clay and asbestos.

1412–13. Owen, H. L. 7530. 1909.
Improvements in the method of, and apparatus for, preparing asbestos fiber for insulating purposes.

1414. Heilpern, J. 12224. 1910.
Pipes and tubes. Sand, asbestos, and coal tar.

1415. Horton, F. L. 19133. 1910.
Woven asbestos fabric impregnated with carbon.

1416. Lilienfeld, L. 26928. 1910.
Linerusta and linoleum. Sulphur derivatives of alcohols and hydrocarbons, with addition of asbestos.

1417. Mueller, A. R. 11908. 1910.
Chem. abs., 1911, v. 5, p. 3151.
Composition of tar and asbestos.

1418. Richards, W. E. W. 4917. 1910.
Chem. abs., 1911, v. 5, p. 3151.
Plastic compositions. Asbestos and tar.

1419. Aylsworth, J. W. 9559. 1911.
Plastic. Asbestos and a phenol-aldehyde.

1420. British Thomson Houston Co., Ltd. 8614. 1911.
J.S.C.I., 1912, v. 31, p. 320; Chem. abs., 1912, v. 6, p. 2825; Ind. rub. j., 1912, v. 43, p. 754; Gum. Zeit., 1912, Jahrg. 26, p. 1741.
Method of separating mineral impurities.

1421. British Thomson Houston Co., Ltd. 16960. 1911.
J.S.C.I., 1912, v. 31, p. 431; Chem. abs., 1913, v. 7, p. 403; Gum. Zeit., 1912, Jahrg. 26, p. 1740.
Purification by heating in a current of hydrogen and treating with acid.

1422. British Thomson Houston Co., Ltd. 24259. 1911.
J.S.C.I., 1912, v. 31, p. 722; Chem. abs., 1913, v. 7, p. 1405; Gum. Zeit., 1912, Jahrg. 26, p. 1997, 1913, Jahrg. 27, p. 1039.
Purification process using oxalic acid.

1423. British Thomson-Houston Company. 6405. 1912.
Electric insulation. Asbestos and a phenol-aldehyde.

1424. Golightly, R. E. 29857. 1912.
J.S.C.I., 1913, v. 32, p. 1012; Chem. abs., 1914, v. 8, p. 2051.
Hardening of asbestos slabs.

1425. Oberleithner, G. 23559. 1912.
Chem. abs., 1914, v. 8, p. 1337.
Prevention of bloom on asbestos-cement plates.

1426. Sokal, S. 13248. 1912.
Mortar. Diatomite, ground lime, asbestos, and water.

1427. Wheeler, J. A. 1390. 1912.
Apparatus and formula for slabs. Asbestos, burnt clay, and a binder, preferably silicate of soda.

1428. British Thomson-Houston Company. 3271. 1913.
Composition. Asbestos and esters of polyhydric alcohols.

1429. British Thomson-Houston Company. 24254. 1913.
Electrical insulation. Esters of polyhydric alcohols and asbestos.

1430. McCoy, J. P. A. 13657. 1913.
Electric insulation. Phenol-aldehyde sulphurchloride condensation products and asbestos.

Patents — Great Britain, continued.

1431. Sutcliffe, E. R. 22423. 1913.
Tiles or slabs made of sand, cement and asbestos are hardened by steam.

1432. Turner, S. 14662. 1913.
Chem. abs., 1915, v. 9, p. 136.
Plates, slabs, tiles, etc. Asbestos, hydraulic cement, and metal reinforcement.

1433. British Thomson-Houston Company. 22421. 1914.
Impregnating material, varnish, or electrical insulation. Asbestos, glycerin, phthalic acid or anhydride, oleic acid.

1434. Dynamidon Ges. 11824. 1914.
Refractory. Furnace lining. Inner layer of bricks of corundum and clay; outer layer of asbestos.

1435. Golightly, R. E. 18005. 1914.
J.S.C.I., 1915, v. 34, p. 835–836.
Apparatus to prevent efflorescence on cement-asbestos tiles.

1436. Stockhausen, H., and R. Gruhl. 14481. 1914.
Adhesive media for fibrous materials. Asbestos, phenol-aldehyde, and salts of trivalent metals, as ferric or aluminium chloride.

1437. Warneck, H. A. 17014. 1914.
Chem. abs., 1914, v. 8, p. 317.
Composition or alloy. Asbestos and iron or steel.

1438. Welte, H. 17862. 1915.
Coating asbestos articles with metal.

1439. Ryan, L. L. 108455. 1917.
Ind. rub. wld., 1917, v. 57, p. 85.
Plastic composition.

1440. Frabetti, G. 120551. 1918.
J.S.C.I., 1919, v. 38, p. 764a; Chem. abs., 1919, v. 13, p. 643; Ind. rub. j., 1919, v. 58, p. 784.
Platinised asbestos.

1441. Potter's Asbestos Co., Ltd., and A. E. Stafford. 121772. 1918.
High-pressure jointing.

1442. Potter's Asbestos Co., Ltd., and A. E. Stafford. 121904. 1918.
High-pressure jointing.

1443. Bell's United Asbestos Co., Ltd., E. Hurden, and J. A. Cann. 122909. 1919.
Ind. rub. j., 1919, v. 57, p. 569–570.
Spinning and doubling machine.

1444. Farmer, A. S., and E. J. Rigby. 128036. 1919.
Ind. rub. j., 1919, v. 58, p. 298.
Rovings and yarns of asbestos.

1445. Potter's Asbestos Company. 127406. 1919.
Ind. rub. j., 1919, v. 58, p. 123.
High-pressure jointing using asbestos and rubber.

1446. Alexander, H. 163746. 1920.
Sheets, blocks, and tiles. Cement, flax fiber, asbestos, and either silica sand or pumice.

1447. Barrett Company. 173225. 1920.
Compositions containing condensation products of alcohols and acids. Asbestos may be added to these.

1448–49. Boucherie, M. 165050. 1920.
Chem. abs., 1922, v. 16, p. 650.
Impregnating fibrous materials to render them rot-proof, fireproof, etc., by the use of fatty or oily liquids.

1450. Crossley, P. B. 152780. 1920.
J.S.C.I., 1920, v. 39, p. 820a.
Non-fragile glass, using asbestos.

1451. Danhardt, E. 153558. 1920.
J.S.C.I., 1921, v. 40, p. 375a; Chem. abs., 1921, v. 15, p. 1061.
Asbestos cloth, especially for the dry separation of solid matter from blast-furnace gases.

1452. Locke, J. A. 160801. 1920.
Caulking composition. Soya bean oil, resin, water gas tar, menhaden oil, sodium silicate, hydraulic cement, and asbestos. Insulating composition made by adding resin and resinate of manganese.

1453. Steiger, E. 149120. 1920.
J.S.C.I., 1920, v. 39, p. 659a.
Prevention of efflorescence on tiles.

1454. Turner Brothers Asbestos Co., and J. Fox. 166799. 1920.
Chem. abs., 1922, v. 16, p. 831.
Asbestos paper suitable for insulating or tape for electrical purposes.

1455. Berry, H. 189892. 1921.
Flooring. Moulded articles. Powdered slate, magnesium oxide, sodium bicarbonate, barium compound, asbestos.

1456. Jones, E. H. 162359. 1921.
Ind. rub. j., 1921, v. 61, p. 1148.
Apparatus for disintegrating asbestos.

1457. Juchli, E. 168891. 1921.
Chem. abs., 1922, v. 16, p. 453.
Electric insulating compositions. Asbestos and resins.

1458. Pattison, W. 155883. 1921.
J.S.C.I., 1921, v. 40, p. 149a.
Curing and coloring of asbestos cement.

1459. Petersen, W., and E. V. Clark. 179586. 1921.
Composition. Asbestos and phenol-aldehyde condensation products.

1460. Plauson's, Ltd. 193520. 1921.
J.S.C.I., 1923, v. 42, p. 454a; Chem. abs., 1923, v. 17, p. 3393.
Mica, asbestos, and rubber compositions, using a colloid mill.

1461. Sulzberger, N. 186409. 1921.
J.S.C.I., 1922, v. 41, p. 894a; Chem. abs., 1923, v. 17, p. 341; Gum. Zeit., 1923, Jahrg. 37, p. 225.
Pure asbestos paper, using no organic binders.

1462. Frosell, O. 202698. 1922.
Plastic composition. Magnesia and asbestos.

1463. Hydroloid, Ltd. 207958. 1922.
Chem. abs., 1924, v. 18, p. 1556.
Sizing and hardening of asbestos materials and rendering them pliable.

Patents — Great Britain, continued.

1464. Beaumont, J. H. 224257. 1923.
Plasticity of refractories and ceramic materials containing asbestos or the like is increased by addition of a small quantity of colloidal earth.

1465. British Thomson-Houston Co. 228224. 1923.
Chem. abs., 1925, v. 19, p. 2858.
Insulating material. Asbestos board impregnated with petroleum wax tailings.

1466. Consortium für elektrochemische Industrie Ges. 220949. 1923.
Insulating compositions. .Polymerized aldehydes, asbestos (or other fillers).

1467. Haggerty, J. F. 223369. 1923.
Wall boards. Starch, gypsum, asbestos.

1468. Hydroloid, Ltd. 207958. 1923.
J.S.C.I., 1924, v. 43, p. B135.
Strength and durability of asbestos materials increased by sizing.

1469. Landmark, H. 218042. 1923.
Composition for flooring. Magnesite, gypsum, mineral color, asbestos, sawdust, and paraffin.

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