Juno 1, 1959

Ref: 595

PLAINTIFF'S EXHIBIT

CAP-290

Mr. R. D. Bradford
NEW YORK OFFICE

RECENT PUBLICATIONS ON ASBESTOS

129. Rhodesian Mining J. 31, #382, 35 (Mar. 1959)
"Rhodesia and General Asbestos Ltd., controlled from Bulawayo, has bought the Temeraire and Shamala mines at Mashaba from the Johns-Manville Corporation of New York, states a report in the journal, "South Africa." More than £3,000,000 has been spent on development since the Corporation became interested in the two mines in 1951, but the original hope of producing 2,000 tons a month has never been fulfilled. At peak production the mines employed 90 Europeans and 2,000 Africans. The European staff today is 70 and the African staff is 600. Average monthly production is 1,000 tons."
(this item is copied here in its entirety)

130. Chem. Abst. 53, 6923f (Apr. 25, 1959)
Meindre, M.
Principal mineralization of the Hoggar (Algerian Sahara).
Chronique mines outre-mer et recherche miniere 27, 9-22 (1959)(English summary)
"Cassiterite and wolframite occur in quartz veins and greisen on the borders of 3 granitic massifs. Large ultramafic bodies constitute a Pt-rich province. The Pt is very uniformly distributed, usually 1-2 g./ton and exceptionally 40-50 g/ton. Promising indications of cross-fiber chrysotile asbestos have been found in serpentinites."
(complete abstract)

131. Chem. Abst. 53, 6934d (Apr. 25, 1959)
P'eng, F. N.
Genetic relation of the asbestos deposits of Kingshian to the diabasic intrusion and the mechanism of their formation.
Ti Chih Lun P'ing 18, 169-80 (1958)
"The asbestos under discussion was formed in the reaction $3CaMg(CO_3)_2$ [dolomite] + $2H_2SiO_3 \rightarrow 3MgO.2SiO_2.2H_2O$ [asbestos] + $3CaCO_3 + 3CO_2$. The equil. goes to the

right, because $CaCO_3$ is slowly removed by the reaction $CaCO_3 + CO_2 + H_2O \rightleftharpoons Ca(HCO_3)_3$. The formation of asbestos can actually be used as a geol. thermometer since it occurs roughly between 573 and 870°."
(complete abstract)

132. Ind. Hyg. Dig. 23, #4, 3 (Apr. 1959)
Brief account of decision in case of Hartsell v. Thermoid Co.; North Carolina Supreme Court No. 236; February 25, 1959 on compensation for disability due to asbestosis.

133. Monthly Index of Russian Accessions 12, 87 (Apr. 1959)
Alova, G.
Asbestos plastics.
IUnyi Tekhnik (Young Technician) 3, #2, 25-27 (Feb. 1959)

134. Monthly Index of Russian Accessions 12, 94 (Apr. 1959)
Akbulatov, Sh. & Zhukov, K.
What's new in using asbestos-cement in housing construction.
Na Stroikakh Moskvy (At Moscow Construction Sites) #1, 13-16 (Jan. 1959)

135. Monthly Index of Russian Accessions 12, 96 (Apr. 1959)
Zakandyrin, B. G.
Apparatus for installing asbestos cement canopies in subway tunnels.
Transport. Stroitel'stvo (Construction for the Transportation Industry) 8, #12, 28 (Dec. 1958)

136. S. African Mining Eng. J. 70, #3451, 727 (Apr. 3, 1959)
"Welcome news of the brighter outlook for asbestos has been given here by the chairman of Universal Asbestos Manufacturing in his statement issued with the company's report and accounts. He has said that since the start of the U.A.M. current financial year in October the group has received orders "in such volume that, despite increased capacity, production

in many cases remains far behind demand". Production capacity for asbestos cement is to be increased and a new mechanised asbestos cement pipe is already being installed. The company is also able to sell all the pitch fibre pipes it can make at its recently increased output."
(this item is copied here in its entirety)

137. Z. Erzbergbau 12, 185 (Apr. 1959)
Rex Asbestwerke Graf von Rex KG (W. Wilke, inventor)
Process for separating asbestos fibers by length and cleaning them at the same time.
German patent publication DAS 1,046,531 (applied for 7/31/56; published 12/18/58)

138. Z. Erzbergbau 12, 185 (Apr. 1959)
Andreas, E.
Recovery of asbestos fibers from asbestos-containing rock with an impact mill.
German patent publication DAS 1,046,986 (applied for 11/26/52; published 12/18/58)

139. Z. Erzbergbau 12, 186 (Apr. 1959)
Rex Asbestwerke Graf von Rex KG (W. Wilke, inventor)
Process for opening asbestos fiber bundles and crude ore to free the individual asbestos fibers.
German patent publication DAS 1,043,231 (applied for 7/31/56; published 11/13/58)

140. Zeschke, Günter
Mining and ore deposits of Pakistan (in German)
Z. Erzbergbau 12, 199-203 (Apr. 1959)
A paragraph on p.203 mentions a silky hornblende asbestos in Peshawar and Hazara District and chrysotile in Hindubagh. About 100 tons are produced yearly.

141. Asbestos 40, #11 (May 1959)
Contents:
Diatomite and its association with asbestos
Forum on reactor materials
Canada's asbestos products 1957
New A-C sewer pipe
U.S. Bureau of Mines published Information Circular 7880
Building
Market conditions
Automobile sales
Production statistics
Imports and exports
News of the industry
Asbestos stock quotations
Current range of price

142. Chem. Abst. 53, 8577c (May 10, 1959)
Göksel, A.
Centrifugal process for manufacture of asbestos-cement sheet (in German)
Rev. fac. sci. univ. Istanbul, Ser. C 23, No. 1, 26-37 (1958)
"Asbestos-cement sheet is formed by feeding a slurry axially into a centrifugal filter with the axis horizontal. The mixt. was caught and suitably dewatered on the filter cloth. The transverse strength of the sheets was 302-380 kg./sq. cm., depending on the ratio of cement to asbestos."
(complete abstract)
This article was reprinted in Gummi u. Asbest; see item #121 in our May list.

143. Chem. Abst. 53, 8577d (May 10, 1959)
Göksel, A.
Hydrothermal reaction between asbestos-CaO-SiO_2 and the use of SiO_2-CaO as the basis for hydrothermal reactions taking place in cement in the manufacture of asbestos-cement sheet. (in German)
Rev. fac. sci. univ. Istanbul, Ser. C 23, No. 1, 68-76 (1958)
"Mixtures of sand, $Ca(OH)_2$ and a small amt. of NaOH (as catalyst) were formed into cubes and heated with steam at 110° for 24 hrs. The compressive strength of the product was as high as 388 kg./sq. cm. The mixts. of optimal proportions are used as binders in asbestos-filled sheets."
(complete abstract)

144. Staples, B. G.
Gasketing glassed-steel equipment.
Corrosion Tech. 6, 151-152 (May 1959)
A gasket composed of a Teflon covering over a core of Buna-S-impregnated sheet asbestos is used for temperatures up to 500°F and pressures to 125 psi.

145. U.S. Bureau of Mines
Asbestos.
Mineral Trade Notes 48, #5, 22 (May 1959)
1958 production in Brazil and Canada.

146. Mining World 21, #6, 81 (May 1959)
"A new firm called Asbestos Cement Products (Nigeria) will be formed, following the recent signing of an agreement in Rome between the Italian "Eternit" group (which will hold 57 percent), the West Regional Production and Development Board of Nigeria (35 percent), and John Holt & Company of Liverpool and Paterson Zochonis & Company of Manchester (8 percent). The Italian company will build and manage the plant, and will provide the necessary technicians. The British companies will market the products."
(this item is copied here in its entirety)

147. Mining World 21, #6, 87 (May 1959)
"Sufficient ore is now on hand to permit full-scale operation of Lake Asbestos of Quebec Ltd.'s new mill, although dredging for removal of the overburden lying above the asbestos ore body will continue until about the middle of this year. During the mill's tune-up period from July to December 31, 1958, it produced 22,800 tons of fibre. Total construction cost of the project is about $36,000,000. The firm is a subsidiary of American Smelting and Refining Company."
(this item is copied here in its entirety)

148. Smoley, E. M.
How gaskets behave.
Prod. Eng. 30, #21, 40-42 (May 25, 1959)
Torque testing of bolts is used to predict gasket efficiency for aluminum-steel joints cycled to 300°F.

149. Tech. Translations 1, 317 (May 15, 1959)
Ivanova, V. P. and others
Asbestiform (cross-fiber) chlorite from a copper-nickel deposit.
Proc. Acad. Sci. USSR, Geol. Sci. Sections 1958, 119 (1959)

150. U.S. Government Research Repts. 31, 316 (May 15, 1959)
Melonas, John V. and others
Measurement of the thermal properties of various aircraft structural materials.
PB 151,546. 62p. November 1958.
Materials covered were one resin-asbestos laminate, three fiberglass-resin laminates, and two fiberglass-resin fluted core sandwich panels for -100 to 600°F.

151. U.S. Government Research Repts. 31, 329 (May 15, 1959)
Dallett, L. R. & Donaldson, W. E.
Method for making fuel cells and lining rocket-motor tubes with asbestos-reinforced phenolic resin.
PB 137,124. 21p. Feb. 15, 1958.

H. McBride

lk

ASARCO ALV 0001882