As-bes'tos. A curious fibrous mineral; a variety of hornblende and pyroxene. It is found in many parts of the world, is of very various qualities, and requires careful preparation for some of the uses to which it is applied. See p. 167, "Mech. Diet"

In the application of asbestos, it is used loose, or is made into sheets, felt, boards, braid, or rope, sometimes with a cementing substance, such as paper pulp, cement, mortar; or as a covering or lining to hair-felt, to prevent the charring of the latter when used as a covering to steam boilers and rines.

pipes.

For steam-packing the fibres are covered with braid, and made in coils of convenient length.

As a paint, it is mixed with metallic pigments, and used on wooden structures, roofs, ceilings, and partitions.

The best asbestos is found in Italy. An exhibition of asbestos has recently been held at the Simonetti Palace in Rome; the material in numerous different crude forms being exhibited, as also all

the known applications of it in the useful arts. The cabinet of Mr. C. A. Wilson, of Genoa, is said to contain one hundred distinct varieties from the Alps. It is largely exported from Italy to the United States. See "Waste Products and Undeveloped Substances," by Simmons. London, 1876.

The uses of Asbestos are recited on pp. 167, 168, "Mech. Dict.":— Absorbent in lamps. Molded articles. Paper.
Piston and rod packing, either in rope or loose form.
Porcelain. Boiler covering. Coffins. Cremation shrouds. Electric insulators.
Fire brick and crucibles.
Firemen's clothes. Refrigerators. Roofing cement. Fire men's clothes.
Flooring cement.
Fuel bed for petroleum.
Ink.
Journal bearings, Ingredient
in Kooning cement.
Ropes.
Safes.
Wrapper for articles to be consumed.
Yarn. Lamp-wicks. To these may be added: Gaskets, for man-hole plates.
Filtering acids.
It is used in the shape of trays of cardboard, for contain-It is used in the shape of trays of cardboard, for containing molten metals at high temperature.

As a sponge, to contain concentrated sulphuric acid in that form of lighting apparatus known as oxygénés, No. 18 of the series of lighting devices recited on p. 1315, "Mech. Dict."

Asbestos is used in Italy as a fire-bed in a furnace, petroleum being poured thereon and burned beneath the steam boiler. — Scientific American, xxxvi., 217. Modifications of this form the subjects of many patents in England and the United States. United States.
See, also, Assestos Stove, p. 168, " Mech. Dict."
As a coating for metals in a furnace:— Fire Clay Soap-stone Nes . . . Patent 104,878, June 28, 1870. BRITISH PATENTS No. 145
2,647
1,418
2,648
1,418
Asbestos pulp for paper. Boiled; fibres segregated and mixed with alum.
6,555
2,048
Lubricant of asbestos, mercury, fat, and oils.
Lubricant of asbestos and clay. (Laubereau.)
Insulator, and non-conductor in electrical apparatus. UNITED STATES PATENTS. 1870. Refrigerators, as a non-conductor. (F. Hyatt, U. S.)
1828. Packing for pistons, piston-rods, pump plungers,
joints, etc., etc. (Israel Jennings.)
August 22, 1865. Lubricant: asbestos, scapstone, and cotton. (Devian.)
March 29, 1870. Cord in a rope packing of asbestos. (Seoctober 4, 1874. Loose asbestos packing. (*Botticher.*) November 8, 1870. Asbestos, graphite, and iron filings. (Kelly.)
1868. Made into sheets with felt or pulp. (Johns.)
September 18, 1866. In carburetors. (Bassett.)
August 14, 1866. In lamps as an absorbent. (Beschke.)
Nos. 112,647 and 112,648, Packing. (Stevens.)
Nos. 112,649 and 112,650, Mode of treating asbestos. (Ste-See under the following references: --"Engineering." Faucet Packing, Dewrance. xxi. 68. "Mining and Scientific Press." "Engineering and Mining Journal."