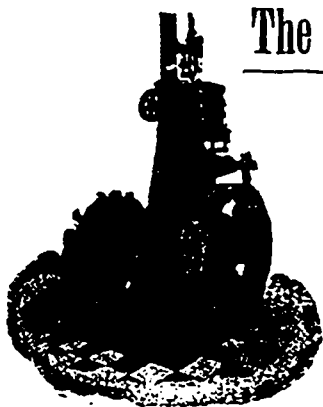


the crystalline limestone which is interbedded with the schists and gneisses carries a blue corundum mixed with magnetite, which is the emery of commerce. The corundum occurs in smaller quantities as a constituent of granite and gneiss in Silesia, Auvergne, and elsewhere in Europe; in a compact felspar rock in Piedmont; in dolomite with tourmaline at St. Gothard; and in crystalline limestone along with numerous other minerals in Orange county, New York, and Sussex county, New Jersey. In Burmah, which became a British province in 1886, ruby mines have been worked for a very long

period. There the country rock is chiefly gneiss, with bands of crystalline limestone of varying thickness and many miles in length. The explorations of Barrington Brown appear to have satisfactorily established that in Burmah the only rock in which rubies are found in place is crystalline limestone. Among other minerals found in the corundiferous limestone are pyrrhotite, hematite, apatite, graphite and spinel. In Ceylon, in the peninsula of India, and in China, there are numerous occurrences of corundum in crystalline schists, and in almost every case the mineral is of the gem variety. As far as

known to the writer, there are no workable deposits in Asia for use in the arts, saving the emery of Asia Minor.

In the United States corundum is confined almost wholly to the region of the Appalachian mountains, along a belt extending from New Jersey to Alabama. In the form of emery it is found at Chester, Mass., in a chlorite belt about twenty feet wide that lies between formations of hornblende schist and talc, and that traverses the mountains about four miles. This is the only productive emery mine in the United States. North Carolina has furnished nearly all the corun-



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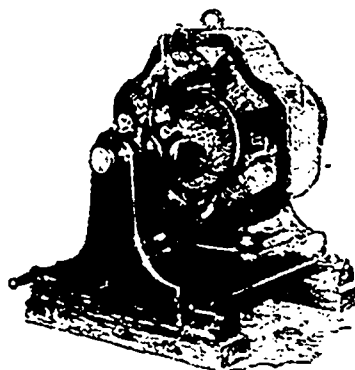
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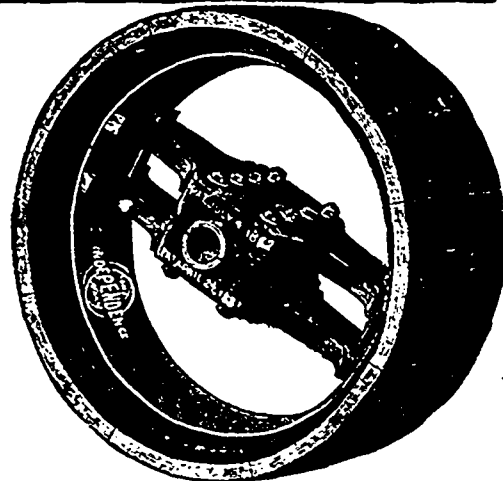
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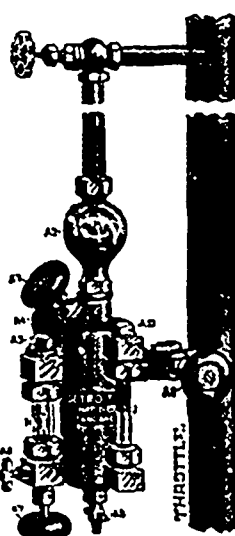
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