

GERMAN COAL, BRIQUETTES—The coal dust from the Emanuel colliery, in the Ratibor mining district, Germany, has for several years been made up into briquettes in an unwashed condition, but, as might have been expected, the briquettes were found to be largely composed of ash. It was therefore determined to employ washed coal dust, to be dried in a special apparatus. A plate over 10 ft. 9 in. diameter was constructed, and into this the wet coal dust, already mixed with pitch, was delivered by an elevator. The drying was effected by an open fire, the heat and gases from which pass over the revolving plate, and then under it into a flue, which leads the products of combustion to the chimney. This apparatus, designed for turning out 200 tons of briquettes in 24 hours, has given good results. It cannot be said that this is an extraordinary turn out for a German colliery. A much larger output is obtained from some of the briquette making plants at work in this country. It is not usual here to mix the pitch with the coal dust while the latter is in a moist condition, nor can we see what advantage is gained thereby.

REDUCTION OF LEAD ORES—A new method of smelting galena has been suggested. This consists of first treating the ore in an open hearth blast furnace, and collecting the lead fumes, containing a large percentage of lead sulphide, driven off therefrom, treating the metal-bearing slag of the open hearth furnace and the fume in a stack furnace, in which the temperature at the top is maintained at so low a point as to prevent the oxidation of the lead sulphide fume generated in the furnace, and subsequently collecting the fume, containing a large percentage of lead sulphide, drawn off from the stack furnace, and smelting it in the same furnace, together with the slag from the open hearth furnace. The results obtained from this process are said to have been satisfactory.

VALUES AND COSTS IN THE SLOCAN, B.C.—A Slocan mine manager estimates that a ton of Slocan ore is worth \$50 for silver at 50c., and \$25 for lead at \$2.20, or a total of \$75. The cost of freight and ore treatment is \$20 a ton, leaving a margin of \$55 for mining and putting on cars.

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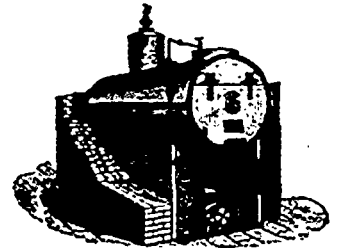
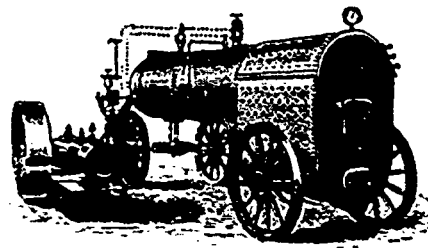
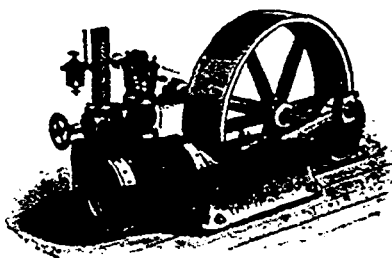
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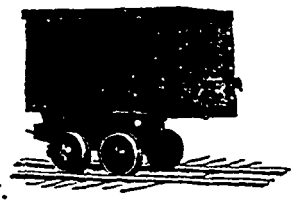
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