WONDERFUL SMELTER has run a tunnel some 300 feet into the

Of Course Will "Revolutioniza" the Business.

O. S. Garretson, of Buffalo, New York, has inveted a new smelter, for which he makes some extravagant claims. If he can substantiate those claims he will revolutionize the smelting business. He

"The furnace is constructed entirely of copper and the estimated expense of building is about \$3500. The furnace just completed is said to be capable of

"The furnace consists of a water-tight vertical shaft not very dissimilar from the present pyritic furnace. In the Garretson's furnace, however, the use of fuel is absolutely unnecessary, the required heat being generated by the combustion of sulphur in the ore and oxidation of the iron and matte.

"While the heated gases arise from combustion of sulphur in the ore in the glish experts and officials. upper portion of the furnace, the mass of the charge keeps passing downward changes indicates that the change has till it reaches the great heat on top of not given perfect satisfaction. The Nelthe slag. There the silica is converted son, B. C., Tribune asks: into slag by the action of the lime and plied as flux.

"The copper matte, as is well known, extra tuyeres delivering a blast under successfully operated? If not, why not?" pressure of 7000 pounds to the square inch on the molten matter, and a very these caustic comments: intense exidation develops the heat nein a state of sulphide into metallic state, Thus there are accomplished in one state.

"One great point of value lies in the fact, inasmuch as no fuel of any kind is required, it makes no difference how inaccessible the mine may be, the ore can naces can also be built of a size to accommodate the output of the mine's ca-

"In the old method and up to the three separate processes were required. First, the ore has to be roasted, which is extracted from the roasted ore. Later, by still another process, the various new furnace the expense is only onetenth as great.

"For many years efforts have been nation in low grade ores could be cheaply sagneity and success. extracted. The great expense and imerfect separation under the old systems have been worked with profit."

Mr. Garretson has organized a company with \$5,000,000 capital to manufacture the furnace, and proposes to erect a copper refinery near Niagara probably a good many of the smaller Falls. The first furnace is going to the copper district of North Carolina and the second will go to California.-Ex. This, however, is the common fate of all change.

Ledge 200 or 300 Feet Wide.

Henry Rathjen, owner of the Vincent creek placers near Austin, has located and worked several claims in this same belt, the ore of which has the appearance of the Bonanza rock. Mr. Rathjen | what THE MINER offers its subscribers.

ledge, which in stringers shows free gold. The sulphides seem to be in the gangue as well as the quartz seams and the ledge is either 200 or 300 feet wide. These figures look large at first, but when it is taken into consideration that the ledge shows in two different gulches some two hundred feet apart, the width must either be the length of the tunnel or distance between the gulches. From this point down the Austin-Susanville road the country has been run over a little, but there are many good properties which are not yet uncovered.-Harney County News.

LONDON MINING INVESTORS.

handling 125 tons of ore each 24 hours. They are Easy Marks for Promoters and Fail as Mine Operators.

American prospectors discovered the Kootenay mines. American operators and capital developed scores of them into paying properties, and distributed millions in dividends. Then came a new era of London flotation, when Americans sold out extensively, and the old manthe hearth of the furnace, beginning the agements retired and gave place to En-

Press comment from up-country ex-

"Is there a single mine in British Coiron, contained either in the ore or sup- lumbia owned, managed and operated by old countrymen exclusively that is now a success? Is there a single mine sinks below the stratum of the siag and that was owned, managed and operated here is where the value of the invention by Americans successfully previous to comes in. At this point there are some its sale to old countrymen which is now

And the Lardeau, B. C., Eagle makes

"The people of London and elsewhere cossary to convert the copper that is yet bave proved to be easy marks for the unscrupulous promoter. Three hundred dollar properties have been secured by operation the roasting, the matting and promoters and turned over to old counthe reducing of the copper to the metalic | try companies at from \$20,000 to \$100,000. After expensive organization, comes a host of chappie clerks, officials, etc., generally relatives of some of the suckers in London, who draw salaries and wear yellow leggins and eyeglasses. The truth be treated right there and converted of the matter is they don't savvey mininto ingots ready for the refining. Fur. ing and it seems as though large doses of experience are slow in teaching them the art. And as soon as one of the Englishmen does get next to a few things he generally uses this knowledge to formubuilding of the Garretson furnace, the late another white elephant company only mode of extracting metal from ore, and thus continue the good work of fleecing his friends in London."

There is a dash of truth in these severe is an expensive process. Then the metal comments, though they carry some injustice as well, it is mere hazard, of course, but the Spokesman-Review metals are separated, one from the doubts if the American owners, had they other. The entire treatment is ex- retained the properties, could have tremely expensive. By the use of this maintained their high record of dividend paying. Perhaps if this suspicion had not been running through their minds, they would not have sold out to the made to produce a machine by which British companies. It seems that they gold, silver, lead, copper and the various knew when to hold and when to sell, other metals which are found in combi. and that is the quintessence of business

Perhaps the mines were not so rich as have caused the abandonment of many Londoners, too, have had other streaks valuable mines which otherwise might of bad luck. There have been serious labor troubles, and the railroad policy has not been a liberal one.

Nevertheless it is undeniably true that some of the big mines, at least, and ones, have been operated with extravagance, and perhaps with bad judgment. good mining camps. Like infantile troubles of teething, whooping-cough, measles and mumps, they are distressing, though seldom fatal.—Spokesman-

Read page 10 of this paper and see



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