

tables, of which I intended to have two in the mill. They are built of iron, and have a capacity of about eight tons, if the ore is well classified.

The advantages which accrue from the separation of the components of our ores are so obvious that it would hardly be necessary to detail them here. But I would like to draw your attention to these facts emphatically once more, as they are of vital importance for many of our mines.

In most cases the gold in our ores is combined with the pyrites, seldom with galena or blende. Now what an advantage it is if I can send my gold concentrates so enormously reduced in bulk to the reduction works, or if, as we have intended, to give them to the chlorination works. What a saving of expenses in haulage, in space, in roasting, in chlorine! Further, if we save the galena and zincblende, and sell the first mineral which is usually rich in silver, and also the latter, to the one who wants them, we can pay in many cases our milling, if not also our mining expenses with the proceeds therefrom.

Mr. T. A. Rickard, the well known mining engineer and mill expert, speaks in regard to the foregoing: "In the actual pattern of the concentrating mills themselves there is no noteworthy change. The plant of the Smuggler Mining Company at Aspen is designed on the lines of German practice and is probably the most complete establishment of its kind in Colorado. The reproduction of European methods, while it may tend to technical perfection, is, however, rarely desirable, because local conditions do not often render it profitable to turn out a variety of products, such as would find a ready sale in the Old World. While the copying outright of mills of German design is not to be commended, there is no doubt that the best thing the western mill men can do just now, is to pay more attention to that one factor in successful concentration which the Germans have done so much to perfect. I refer to proper sizing before jigging. Indifference on this score has been a serious stumbling block to the attainment of good results in mills which were otherwise excellently designed."

But, gentlemen, even if we should not find here a ready market for the different products, for instance, for the zincblende and galena, so is it undoubtedly of vital importance for us here with our poor communications to the market, to reduce the bulk of our shipping ore, or those products which contain the principal value of our ores, as much as pos-

sible. Further, the smaller blende. I have a very high grade, 6 per cent. blende, which we have concentrated and take consideration this a rich vein which the gold was of the copper two former per unit. Is everyone of aiferous galena. Surely it would. And what is the all kinds of value principle as the difference.

The treatment is superfluous in and indeed it is. The assay high shown here the tailings should take the place furnishes the product washed into the washed on the part of the tail periphery. The the buddle, and

Now we have of the stamps, long as they do vanners and bu