The Emma Mine Again,

We have received from London a copy of the directors' report on the famous Emma mine, in Utah, which presents a very gloomy prospect for the shareholders ever getting their money back, although suit has been commenced against the vendors. In their report the directors say: the directors say:

"Shareholders are aware that the mine was seized under attachment by Park at the time the action sgainst him and others was taken, and that it has ever since remained vested in the United States marshal (sheriff); consequently the directors are unable to report as to any explorations, and have no reason to suppose that any discovery of ore would have been made had such explorations been undertaken; on the contrair, very voluminous reports from on the contrary, very voluminous reports from independent sources induce them to believe that the mine itself is, and has long been, uterly exhausted. The only available source of income that could have accrued to the company, and that only to a very limited extent, would have arisen from the concentration of the "fillings" or low grade ore left from former workings. Advices recently to hand state that Mr. Park under his attachment had sold the personal property of the company—i. e., the whole of the machinery, plant, timber on surface, the ore sacks, office furniture, etc. We have sent out instructions to pay off the Salt Lake establishment, and measures are in progress for a further reduction of expenses at the London office by the retirement of the secretary, etc. Mr. Attwood, the general manager has returned from America; he will be presen at the meeting; his report accompanies this.
The case sgainst the vendors is being vigorously proceeded with, and evidence has been
collected in this country from the officers of
the company, the promoters, solicitors, trustees,
stock brokers, ore brokers, accountants, bankstock brokers, ore brokers, accountants, bank-ers, all the English original directors, and the ers, all the English original directors, and the American ambassador; testimony has also been taken at Salt Lake City by commission. The result of the evidence has, in the opinion of the company's legal advisers, tended to strengthen the claim of the company against the vendors, and the causes are already set down for trial in the United States circuit court. down for trial in the United States circuit courr. Facts have also come through the late commission in England to the knowledge of the board which have induced us, under the advice of our solicitor, to apply for the restitution of moneys received by certain of the original directors. The solicitor has prepared a report upon the commission, which report, and the opision of counsel thereon, will be in our hands to be dealt with as the forthcoming meeting may determine. The directors have no de-

hands to be dealt with as the forthcoming meeting may determine. The directors have no desire to remain in office, and will resign their seats at the meeting on November 10th."

The report of the manager, Mr. George Attwood, is also discouraging, as were his previous reports. He tells in detail how he extended his drifts, etc., without finding any ore. He says: "The fillings and scrapings still remaining in the mine are not yet all worked out, but it is almost impossible to form an accurate on injon upon either the quantity or quality of opinion upon either the quantity or quality of the same. Taking a rough estimate, I should think you have about 4,000 tons in the mine of poor waste, etc., that should yield by concentration 350 tons of ore, assaying thirty-five per cent lead, and seventeen ounces of silver to the cent lead, and seventeen ounces of silver to the ton of 2,000 pounds. Estimated gross value, \$30,000. Second class dump: There is still remaining on the "dump" about 100 tons of the "original dump," and about 150 tons that has been mined under my management. Estimated gross value, \$3,200. Condition of mine: The present condition of the mine is a most deplorable one. The water having risen within fifty feet of level No. 1, and remaining there a greater part of the summer, it has now receded ater part of the summer, it has now receded to about twenty feet above level No. 4. The result is that the timbers have given way in all directions, and even the engine shaft cannot be considered safe to work in. It will now be a most difficult as well as a dangerous and expensive piece of work to mine what fillings, waste and scrapings still remain. The greater portion of the old workings above level No. 1 has "caved in," and made an immense hole on the swifes are adding to 200 feet by the swifes are all to the swifes are all t

New Use For Sawdust.—Sawdust can be converted into a liquid wood, and afterwards into a solid, flexible and almost indestructible mass, which, when incorporated with animal matter, rolled and dried, can be used for the most delicate impressions, as well as for the formation of solid and durable articles, in the following manner: Immerse the dust of any kind of wood in diluted sulphuric acid, sufficrind of wood in diluted sulphuric acid, sulno-iently strong to affect the fibers, for some days; the finer parts are then passed through a sieve, well stirred and allowed to settle. Drain the liquid from the sediment, and mix the latter with a proportionate quantity of animal offal, similar to that used for glue. Roll the mass, pack it in molds, and allow it to dry.

Hor Glass a Conductor or Electricity.— Mr. Whitehorn, of London, has discovered that glass, although a non-conductor at ordinary temperatures, becomes a good conductor at red-heat; even at 212° Fahr. it conducts some elec-

Vulcanized Fiber—A New Joint.

We have already made mention of a new and remarkable material which has been called 'vulcanized fiber," The uses for this material have already become quite numerous, and a large company has been organized in New York for its manufacture, which is said to be already doing a large line of business. New uses for the material are constantly being developed. The latest novelty in this direction is a water-tight joint, which seems one of those simple improvements the value of which is apparent at a glance. This joint is described in the American Artisan as follows:

The nature of this vulcanized fiber is such that, while it is absolutely insoluble in hot or cold water, oil, alcohol, nabhtha or ether, vet it

cold water, oil, alcohol, naphtha or ether, yet it expands by exposure to moisture. This prop-erty has been availed of in making this joint, erty has been availed of in making this joint, which certainly accomplishes its object most effectually. The boards or planks are jointed with square edges, and at the same time grooved by a circular saw of proper thickness to any depth desired. In these grooves is inserted a tongue of hard rolled vulcanized fiber, and the

a peg or bolt that can be inserted freely into these holes, so as to keep the sheep from disen-

convenient to use an ordinary mechanical oil can filled with coal oil. With this the oil can be squirted into such places, and then a slight kneeding or rubbing in with the fingers will cause it to penetrate all parts. And in fact for "spotting" sheep coal oil, if not considered too expensive, is one of the very best applications that can be used in cases of scab.

From this account of the process it will be seen that "spotting" is at best only a halfway plan for doing the work. I have seen open wooled sheep do quite well when treated by this method; still one is always in doubt as to its thoroughness. When scab has once appeared it is better to "dip" the sheep each spring, continuing it for a season or two after the affection appears to have been eradicated from the flock and from the range. Hence it is best to prepare at once for dipping, just as one prepares shearing pens, etc. For the new hand wants to bear in mind that, no matter how "lucky" some of his older neighbous may appear to be keeping down scab in their flocks (which, perhaps, are of common and open wool sheep), still, as the new flock goes on improving each year, and particularly of orceding up in either of the merino varieties, the owner is liable to become disgusted at times with the imperf ot success of his efforts to keep down scab by "spotting." cess of his efforts to keep down seab by

temperatures, becomes a good conductor at redheat; oven at 212° Fahr. it conducts some electricity; at 330° it conducts six times better, while at 570° it conducts forty times better than at 330°. It thus appears that solid and melted igass is very much like solid and melted ice in its relation to electricity; for cold, dry ice is almost or quite as perfect a non-conductor as cold, dry glass.

The English Etohty-one-ton Gun to at 124-ton cannon. This enormous gun will throw steel bolts weighing more than 2,200 pounds each, and will require a load of powder weighing 400 pounds. It is estimated that the projectile will pierce at a distance of 2,200 feet the heaviest plates, of 23.8 inches thickness, now used on the English rouseleds, and that its extreme range will exceed seven miles and a half.

Dipping.

"Dipping.

"Dipping.

"Dipping: sheep, as the term would imply, consists in submerging the whole animal in the liquid or "wash" used for the scab. For this purpose a trough or box of appropriate size is required to contain the liquid. After being dipped, the sheep is to be taken out and placed on a shelf or platform near at hand, set at such an inclination that the liquid, as it drains off the animal, shall flow back into the dipping trough. Where a large flock is to be dipped a platform or pen is usually arranged large enough to secommodate fifty to one hundred sheep at a time, the floor so inclined that the liquid which drains off them shall flow back into the dipping trough. The trough is also arranged that the sheep may be driven through it, thus obviating the necessity of catching and holding each animal. Each sheeperd has, of course, his own ideas of a pen and dipping trough, and I shall give my own for what they may be worth.—Record-Union.

Water-Tight S. F. MARKET REPORT.

GENERAL MERCHANDISE. WHOLESALE.; WEDGERDAY M., December 1, 1878. ## WFINEMAL M., December 1, 1878,

Finemal M. | 9\square\text{and Wht. | 40\text{and Wht. which certainly accomplishes its object most effectually. Thosouris or plants are jointed by a circular saw of proper thickness to any depth desired. In these grooves is inserted at tongue of hard rolled vulcanized fiber, and the boards are driven closely together. Should any water leak through the joints to the tongue of vulcanized fiber, it will cause it to capand, and pack the groove tightly, and thas arrarel its office of the posts. The celebrated paper boat builder, who has built a number of wooden skiffs in this manner, thereby dispensing with all calking, adding greatly to the strength and stiffness of the boats, and considerable distance apart, yet so long as the tongue remains in both grooves, the joints will always be water-tight. Of course, these tongues can be made of any desired thickness and width, so as to adapt the importance of this device, and the multiplicity of uses to which it can be applied. In a distance, and to use of easy to over-estimate the importance of this device, and the multiplicity of uses to which it can be applied. In a distance, and the province of the course, these congress can be importance of this device, and the multiplicity of uses to which it can be applied. In a distance, and the province of the course, the course of the course

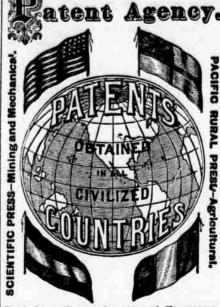
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[WHOLESALE.]



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