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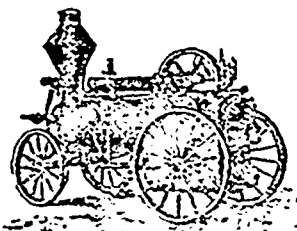
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## MINING.

Another new gold-saving process, known as the Pielstickor process, is now in the field. It is claimed for this new process that it has advantages in advance of any other cyanide process, that the methods of working have been considerably simplified, the cost reduced, and that the difficulties hitherto unsolved have been successfully overcome, and the Syndicate announces its readiness to grant licenses to approved companies at a reduction of 50 per cent on the royalties charged for any other cyanide process. By the advantages of the new process whatsoever they may, the McArthur-Forrest process has already reached solid results of undeniable value and should not be easily knocked out. During seven months ended April 1st, no less than 62,398 oz. gold had been recovered on the Rand by means of the McArthur-Forrest process. The figures for April alone were 13,500 oz. It also appears from a recent report that at the Robinson Company's battery a solution of cyanide is being used in the course of stamping with the most satisfactory results.—*The Financial and Mining Record.*

At the end of June of the current year, mining upon the Randt gold fields in South Africa had been in existence five years. During this period 2,429,691 ounces of gold were produced, valued at \$42,000,000, the average grade of ore milled being about \$12 per ton. The production for the present year bids fair to exceed 1,100,000 ounces. It is entirely safe to say that no gold mining district relying upon vein mining alone has ever shown such a record as this, although the immense advantage of practically unlimited capital must not be overlooked. It is probable that the marked increase from 323,142 ounces in the first half of 1891 to 562,704 ounces in the first half of 1892, or over 74 per cent., will be even exceeded in the future.

Deep mining is in its incipency, and a syndicate of able mining men and capitalists have practically secured this field. (It will be remembered that the locations in the Transvaal are square, and work in depth is limited by the side lines.) Claims parallel to the best of the proved reefs have been secured to the number of 650 by one syndicate alone, and, aided by the great capital at their command, undoubtedly the mining industry of the Randt will receive a second stimulus in no ways less pronounced than the last.—*Engineering and Mining Journal.*

## WORLD'S FAIR NOTES.

The Miners' Association of Nevada County, California, is arranging to have a small stamp mill in full operation at the World's Fair as a part of its mineral display.

The French Chamber has voted an additional appropriation of \$160,000 to be expended in freight charges to and decorations of the French building at the World's Fair. The amount previously provided was \$650,000.

A large and perfect model of the Forth bridge has been secured for exhibition at the World's Fair, and an application of the management of the Gothard Railway Company, of Switzerland, for space in which to show a large model or relief map of that road has been made.

Space for Pennsylvania's oil exhibit at the World's Fair has been granted covering an area of 150 by 250 ft., adjoining Machinery Hall. Of this space the Oil Supply Company, of Pittsburg, will occupy 100 by 150. An iron building for the machinery will be erected, several deep wells will be sunk, keeping the well digging apparatus running throughout the Exposition.

An exhibit of the Ice Age is being prepared in Ohio for the Exposition, by Prof. I. F. Wright. He will collect boulders from different parts of the State, and with them fragments from the original ledges in Canada from which the boulders were brought by the ice; and specimens of scratched stones, exhibit a large glacial map of Ohio, an outline map showing the course the boulders have been brought, placed detailing the principal glacial facts, etc.

General William O. O'Neil, President of the Board of World's Fair Commissioners of Arizona, says of its exhibit, that the mineral exhibit will be particularly fine and will show an immense variety of ores, ranging from gold to coal in all the different shapes in which they are found. One feature of this exhibit will be an immense mass of meteoric iron weighing 1,500 lbs. from the northern part of the Territory, and remarkable for containing, in addition to iron and nickel, diamonds in the shape of a minute dust—an element never heretofore found in connection with meteoric waifs.

The United States Geological Survey has been for 10 years engaged in making a great map of the United States, parts of which will be on exhibition at the World's Fair. The piece, 6 ft. in length and 4 ft. in width, now ready, includes the State of Connecticut and a bit of Long Island and Eastern New York. This vast map will take at least 25 years more to complete. Its details are such that upon it will be indicated every stream, brook, hillock, mountain, valley, farm, village and city. It will show every public and private road as completely as a surveyor's map of a small township. This map, when completed, would, if spread out, cover a little over three quarters of an acre in superficial area. In addition to this piece of the map of the United States the Geological Survey is preparing an outline map of the country, which will also be exhibited at the Fair. It is to be spherical in shape. By it at a glance the different elevations, the tablelands, mountain ridges and the valleys will be indicated in the outline, the highest peaks of the mountains being proportionately elevated.

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