

every description. Some of the heaviest and most ornamental house fronts erected in this city have been produced at these works.

DEVOE, DINSMORE & COMPANY,

At their Steam Engine and Machine Works, northeast corner Mission and Fremont streets, employ a large number of hands in the manufacture of steam engines and castings of every description.

JOHN K. SIMS' IRON WORKS,

Established 1853, for the especial manufacture of fire-proof doors, shutters, bank vaults, and every description of lighter castings, such as gratings, cemetery railings, balconies, and ornamental house work of all kinds. Works on Oregon Street near Front. Number of hands employed, fourteen.

EUREKA WORKS.

William McKibbin, proprietor, 41 and 43 First Street. This establishment manufactures iron stairs, shutters, railings, and house-work of every description. The celebrated Eureka Key and Clump Bridge is also manufactured by Mr. McKibbin. Number of men employed, eight.

BOILER WORKS.

The Boiler Works of Messrs. Coffey & Risdon are engaged in an extensive and increasing business, employing a large number of hands, involving a heavy outlay for labor and materials. Several of the leading foundries are also engaged in the manufacture of boilers.

There are numerous other establishments engaged in the working of metals, viz.: blacksmith shops, brass foundries, carriage and wagon smiths, copper-smiths, exclusive of those employed in the precious metals.

METALLURGICAL ESTABLISHMENTS.

With the constant discovery of new mines in the Washoe, Humboldt, and Reese River region, and the reclamation of old ones in Mexico, there is of course an increased demand for the best methods and most complete facilities for reducing and extracting the various samples of rock, produced from thousands of sources. In order to avail themselves of every facility and the improvements which are made every day in this department, the owners of these mines ship samples of their ore to this city for reduction and assay. There are four large Metallurgical establishments in this city, engaged in crushing and receiving samples of rock, from Reese River to Mexico, and which are kept constantly at work. We will enumerate them in the following order:

THE PACIFIC METALLURGICAL WORKS.

This pioneer establishment, which is located at the junction of Meiggs' Wharf and Francisco Street, North Beach, has been in successful operation for three years, during which time it has tested and developed the mineral wealth of many of the most valuable mines yet discovered. The capital stock is \$500,000, in five hundred shares of one hundred dollars each. The following are the officers of the Company: S. C. Hastings, President; M. S. Martin, D. C. Ferris, S. C. Bradshaw, Paul Torquet, W. A. Woodward, Directors; S. C. Bradshaw, Jr., Secretary; G. T. Fouque, Superintendent.

These works were erected upon European plans under the direction of Mr. Fouque, an able Metallurgist. Both wet and dry processes are used.

The machinery is propelled by a twenty-five-

horse power engine, the vertical mill being used in crushing the ore—about five tons being worked per day; three amalgamators are in use, and extensive furnaces are used for roasting ores.

NORTH-BEACH QUARTZ MILL.

This mill, which has recently gone into operation, adjoins the Pacific Works on Francisco Street. It has also a twenty-five-horse power engine, which drives a battery of five stamps, crushing about six tons of rock each day. It is fitted up with two of Varney's Amalgamators, separating and reverberatory furnaces for roasting ores. Messrs. George Wheeler and Moses Thayer, are the proprietors.

SOUTH-PARK QUARTZ MILL.

This establishment is located at Steamboat Point, and has in use a thirty-horse power engine, with Bryant's Iron Battery, crushing about two and a half tons of ore each day. Six of Palmer and Hare's cast-iron steam pans are in use in the mill. J. W. Smith, Superintendent; S. F. Clouser, Secretary.

ELECTRO METALLURGICAL WORKS.

This Company, composed of Messrs. J. C. Griswold, L. A. Kelley, R. B. Gray, and B. R. Norton, have an establishment at No. 616 Merchant Street, between Montgomery and Kearny, devoted to the reduction and assaying of ores—the amalgamating process being facilitated by the application of electricity from a very powerful battery, connecting with Varney's and Taylor's pans. By this process, it is said, that not even the minutest particle of the precious metals is lost.

THE EUROPEAN ORE REFINING COMPANY,

Located on Bryant Street near Third, have in operation Quartz Mills and Furnaces which are engaged in the reduction of ores. The operations of these works are superintended by thorough practical metallurgists, of extensive European experience, and from their success so far their operations are destined to become of permanent importance to the State.

THE SAN FRANCISCO GOLD AND SILVER REFINERY

Is located on Brannan near Seventh Street. The refinery, a substantial brick structure, is one story in height, and sixty feet in width by one hundred and thirty in length, together with the various implements in use, represent a permanently invested capital of about \$60,000. Employment is furnished to an average of from thirty to forty persons. Kellogg, Hewston & Co., proprietors; office 416 Montgomery Street.

There are several other establishments in the city engaged in the refining of gold and silver, viz.: Hentsch & Berton, 432 Montgomery Street; S. Mollitor & Co., 418 Montgomery Street; Riehn, Henne & Co., 408 Montgomery; Greenberg, Ehrlendback & Co., 521 Sacramento Street.

SAN FRANCISCO AND PACIFIC SUGAR REFINERIES.

During the past year a new refinery has been built, brought into successful operation, and merged into one concern, with the old established "San Francisco Sugar Refining Company." They are incorporated as the "San Francisco and Pacific Sugar Company." Capital, \$800,000. Manager: Geo. Gordon; Agents: Wm. T. Coleman & Co.

The buildings of the Company are located on the corner of Harrison and Eighth streets, and together comprise the largest buildings in the State, with the exception of the U. S. Forts. The buildings consist of a melting house, eighty feet long, forty-five feet wide, and six stories high; a charcoal tank house, eighty-five feet long, twenty-five feet wide, and thirty feet high; a white sugar house, eighty-five feet long, fifty feet wide, and six stories high;