

Worth, Hyde & Field, Sept. 8, 1855, as a machine shop; July 2, 1856, facilities were added for casting metals and changed to present style of firm on the 6th of same month. The works at present keep about 30 hands employed in the different departments.

Albion Foundry.—Spratt & Debie, proprietors; Pine between Sansome and Montgomery. These works are principally employed in the manufacture of steam engines, grist and quartz mill machinery and castings for house fronts. Number of men employed, 10 to 25.

Shaw's Foundry.—This is a small foundry connected with the Agricultural Implement Manufactory of T. O. Shaw & Co. Sacramento near Davis. Number of men employed, 6 to 10.

Sutter Iron Works.—These works were established on the corner of Folsom and Beale streets January, 1850, by George K. Gluyas, in connection with the International Navigation Company known as the Aspinwall Company. The buildings were not fully completed until September, of the same year, when the works were in full operation and did a very large business. Prior to September, the work that was transacted by this establishment, was, to a great extent, performed in the open air. Number of hands employed, 30.

In addition to the foundries above enumerated, there are numerous smaller establishments engaged in the working of iron, affording employment to a large number of persons.

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, the past year, of \$90,000. The worthy proprietors are men of family, settled here as permanent Californians, and deserve, as they will certainly achieve, success. The number of men employed, about 40.

MACHINE SHOPS.

Empire and Keystone Iron Works.—D. Van Pelt, proprietor; 90 and 92 Bush. These works are engaged in the manufacture of iron shutters, vaults, safes, etc. Mr. Van Pelt is owner of the right for this State and Oregon, for the patent, self-regulating wind-mill, invented by F. G. Johnson, a valuable and important assistant for farmers, miners, etc. Number of men employed at these work, 15.

San Francisco Steam Engine and Machine Works.—Devoe & Co. proprietors; south-west

corner Market and Fremont. A large number of steam engines are annually manufactured at these works; also, light machinery of every description. Number of men employed, from 10 to 20.

Eureka Works.—William McKibbin, proprietor; Pine between Sansome and Montgomery. This establishment manufactures iron stairs, shutters, railings and house work of every description. The celebrated Eureka Key and Clamp Bridge is also manufactured by Mr. McKibbin. Number of men employed, 10.

Phoenix Works.—Kittredge & Fraser, proprietors; Battery near Pacific. These works annually manufacture large quantities of fire-proof doors, shutters, gratings and house-work generally. Number of men employed, from 15 to 20.

Pracy's Machine Works.—Market near Second. Employed in the manufacture of steam engines, quartz and grist mill machinery, printing presses and machinery in general. Number of men employed, from 10 to 20.

There are numerous other establishments engaged in the working of metals, viz: blacksmith shops, 45; brass foundries, 5; carriage and wagon smiths, 25; tinsmiths, 48; coppersmiths, 12—exclusive of those employed in the precious metals.

CALIFORNIA METALLURGICAL WORKS.

The California Metallurgical Works, cor Harris and Brannan, have been in successful operation during the last three years. They are both extensive and admirably adapted for the assaying of different descriptions of ore, and especially for the extraction of gold from the tailings of quartz mills. During the first 15 months that these works were in operation, but one furnace was used; during the succeeding three months, two were employed. The aggregate amount of gold extracted from quartz tailings and ores, during this period, is \$150,000. The whole of this sum may be considered clear gain, and as two-thirds, or \$100,000, were paid to the owners of quartz leads, who have invested their money, as a general thing, in this State, the item becomes of considerable importance. About \$50,000 have been taken from sweepings, polishings, cinders from assay offices, etc.; and of this amount two-thirds or \$33,333, have been paid to the parties from whom the material was obtained. The entire cost of these works is \$150,000, and they furnish employment to 16 persons. The agents are Messrs. Wass, Uznay & Co.

In addition to the Eureka Refinery and the Metallurgical Works, there are five other estab-