

lishments for the refining and assaying of gold, silver, etc. The offices of G. W. Bell, Henry Hentsch and Kellogg & Humbert, are very extensive and capable of transacting a large amount of business.

#### REFINING OF GOLD AND SILVER.

The Gold and Silver Refinery is located on Brannan near Harris. The refinery, a substantial brick structure, is one story in height, and 60 feet in width by 130 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 25 to 30 persons. Operations were commenced at the refinery on the 14th of March, 1858, and continued until August 8th, when they were temporarily suspended. Since that time the facilities have been greatly increased, and in August next the business will be resumed. The refinery has a capacity equal to the refining of 20,000 ounces of gold per day, or, at \$17 per ounce, \$340,000. The amount refined during the period it was in operation was equal to \$15,000,000. E. Justh is the proprietor. A laudable feature of the management of this establishment is, that all gold deposited is returned in American coin, as the refined gold is coined at the Branch Mint at San Francisco. By the operations of this refinery, two considerable items were saved to the State, viz., the value of the sulphate of copper (important for agricultural purposes) annually produced, and the consumption of sulphuric acid, which is manufactured from native sulphur at San Francisco; the first amounting to \$100,000, and the latter to over \$35,000 annually.

#### CHEMICALS.

The San Francisco Chemical Works are located near Mission Dolores; Farmer, Chase & Co. proprietors. These works have been successfully employed for the last three years in the manufacture of acids. The average number of persons employed is 14, and the amount of acids disposed of during the past year amounted to over \$100,000.

The Chemical Laboratory of J. Mosheimer & Co., Bryant Street, near South Park, is employed in the assaying of ores and minerals of every description.

#### CORDAGE AND OAKUM.

The San Francisco Cordage and Oakum Factory, located at the Potrero. This enterprise commenced in April, 1856, by Messrs. Flint, Peabody & Co., and Messrs. Tubbs & Co., since

which time the operations of the company have been successful. The buildings connected with the works are of the most extensive and permanent character. The main structure, occupied as a rope-walk is 1,000 feet in length, and the spinning factory is 100 by 40 feet in length. The consumption of raw material is about 4,000 pounds of hemp and 3,000 pounds of oakum per day, which is obtained from Manila, and arrangements have been completed for regular shipments thereof, until California shall be able to furnish the same from the products of her own soil. Office of these works, 139 Front. The enterprising proprietors of this establishment are now engaged in the manufacture of cordage from California grown hemp. The specimens exhibited at the last Mechanics' Fair will favorably compare with the imported article. They have also made arrangements for the importation of seed, for the production in this State of a sufficient quantity of the raw material to supply the demands for home consumption.

#### THE REFINING OF SUGAR.

The San Francisco Sugar Refinery is owned by a company of San Francisco and New York merchants organized by the Legislature of the State. The works of the company are located at San Francisco, corner Price and Harrison; they are of the most extensive character, and of a capacity sufficient to supply the entire consumption of sugar in this State. The main building is 75 feet in width by 122 in length, and five stories high. Several small buildings are attached, for the prosecution of the different branches connected with the refinery. The entire premises cover an area of 412 by 275 feet. The raw material consumed at these works is obtained from Manila, Batavia and other islands in the Pacific, and a line of clipper barks is now employed in maintaining a regular supply, to meet the requirements of the company. It is estimated that 400 tons of sugar and 20,000 gallons of syrup per month can be manufactured at these works. The number of hands employed is 150. Cost of buildings and grounds, \$100,000.

The California Sugar Refinery, located Battery near Broadway, erected at an expense of \$60,000 are extensive and admirably adapted to the purposes to which they are appropriated. Capacity, per month, 500,000 pounds.

#### WOOLEN GOODS.

The extensive growth of wool in this State, and the demand existing on this coast for goods