

PAPER.—Owing to the increased demand for printing paper upon this coast, and the high prices of stock at the mills in the Atlantic States, the manufacture of this article here is every day assuming a greater degree of importance; and, notwithstanding the capacity of the two mills that have been in successful operation in this State for a number of years past, they are unable to supply the demand. The abundant water power which exists throughout this region, and the purity of its crystal streams, afford every facility for the successful prosecution of this branch of manufacture. The total value of the stock produced at these mills, during the year 1866, amounted to \$172,801. The first of these, the Pioneer Mill, erected ten years since, at Taylorville, Marin County, by S. P. Taylor & Co., produced during the year 1866: of book and map paper, 1,410 reams; news, 3,338; assorted colors, 538; Manila wrapping, 7,082. The paper used for the State Printing during the last session of the Legislature was produced at this establishment; and the greater portion of the paper used in the map-publishing business of this coast comes from the same quarter. The San Lorenzo Mills, on San Lorenzo Creek, Santa Cruz County, owned by Messrs. Harrison, Sims & Smith, which have been in successful operation for the past six years, manufactured, during the year 1866: 6,717 reams of news, and 31,000 of straw paper. The quantity of material worked up in both establishments, during the same time, was 500 tons of cotton rope, 600 of straw, and 100 of waste rope.

POWDER.—The immense quantity of powder used in blasting in the mining and other operations on this coast, has early created a demand for the article. No attempts were, however, made at its manufacture until 1864, when the California Powder Works Company was organized, with a capital stock of \$100,000, which has since been increased to \$300,000. The first powder made was in May, 1864, since which time the mills have been in successful operation. The works are located in Santa Cruz County, on San Lorenzo Creek, which stream affords abundant water power for all the operations of the concern. The machinery is of the most approved styles, and is in no respect surpassed by that of any similar establishment in the United States. It includes five sets of wheels and two double presses, with a capacity of manufacturing six hundred kegs per day. The sulphur used has hitherto been imported from Europe; but as immense bodies of the crude article exist in various portions of the State, and refining works have been put in operation by the California Borax Company, at Clear Lake, and also in Colusa County, where crude sulphur is abundant, there no longer exists an excuse for importing this material from abroad. The nitrate of soda, which is essential in the manufacture of blasting powder—although refined saltpetre is sometimes substituted in its stead for sporting powder—is imported from Peru, where it exists in abundance. Large quantities of the willow and alder growing in the vicinity, the charcoal used is manufactured on the ground. For the purposes of security, the works are distributed at considerable distance from each other, over an area of one hundred acres, and such precaution is taken to render an accident almost an impossibility. During the year 1865 these works produced over 40,000 kegs of blasting and 300 kegs of sporting powder; and during the year 1866 double that amount of blasting, and over 5,000 kegs of sporting powder, all of which meets with a ready market. The only other manufacture of this character in California is that of the Pacific Powder Mill Company, located on Tokelam Creek, near San Rafael, in Marin County. This company was organized in April, 1864, with a capital stock of \$30,000, which was afterwards increased to \$60,000. The machinery, which is of a capacity sufficient to produce about two hundred kegs of powder

per day, is distributed in a number of buildings located at a distance from each other, over an area of 500 acres. Both water and steam power is used. The company import their nitrate of soda from Peru, but have adopted the refined sulphur manufactured by the California Borax Company, which is found to fully answer the purpose. Innumerable accidents, resulting in the loss of life and limb, to the large number of people engaged in blasting in the mines, from the defective quality of fuse imported from abroad, the want of a home manufacture of this indispensable article has been felt here for a long time; and although the merits of the subject have been fully canvassed, nothing permanent has as yet been done in the matter.

GLASS.—Although the manufacture of glass during the year 1866 amounted to but little over \$80,000, its importance should not be underrated. The quantity, owing to the constant and rapidly-increasing demand growing out of the extended wine products, druggists' and manufacturers' wares of various kinds, mineral waters, mustard, pickles, and similar manufactures, falls far short of the demand. The first manufactory of glass in San Francisco was by the Pacific Glass Company, which was incorporated in 1862, who erected a large building on a tract of ten acres, purchased for the purpose, on the Potrero, and contiguous to the Bay. Glass blowing was commenced here on the 16th of June, 1863, since which time the work has been steadily continued. From forty to fifty hands are employed, and every variety of glassware demanded by the increasing manufactures of the country, are produced. These works are at present conducted by Messrs. Salsbury, Kirk, and Mordecai. The San Francisco Glass Works, owned by Messrs. Newman and Brannan, located on Townsend street, between Third and Fourth, have been in successful operation for two years past. They employ forty hands, and turn out lamp chimneys, bottles, jars, and druggists' wares to the amount of \$1500 each week. This establishment is prepared to furnish retorts needed in chemical laboratories of any capacity, up to twenty-five gallons; and during the past season manufactured for the chemical works of Judson & Co. twelve twenty-gallon retorts, to be used in the manufactory of acids for the San Francisco United States Mint, as well as twenty-four sixteen-gallon retorts, and a large number of glass syphons for the chemical laboratory of B. B. Thayer and Co., of this city. The white sand used for the finer quality of glass made at these establishments is found in large quantities in Monterey County; the next quality comes from Oakland, across the Bay; whilst that for the common or ordinary quality is found in immense quantities in the hills of San Francisco.

CORDAGE.—The only establishment in this department is the Pacific Cordage Manufactory, located at the Potrero, and owned by Messrs. Tullos & Co. It was established in 1856, since which time it has been in successful operation, there being a constant demand for the articles produced. The rope walk is fifteen hundred feet in length, and the building, comprising the spinning department, is one hundred feet long by forty in width. Fifty hands are kept constantly employed, and over 2,000,000 lbs. of cordage were manufactured during the past year. The stock worked up is imported from Manila direct.

MATCHES.—Although the manufacture of friction matches was only commenced in this city six years since, it has steadily increased, until the domestic article has almost wholly monopolized the market—the article produced here being a superior as well as cheaper article than the imported. This article requiring to be stamped direct, we have no means of arriving at the exact quantity produced during the

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