

All the articles exhibited were of great excellence, and made one of the most attractive and valuable displays made at the Fair. The manufactures of these mills took the first premium at the State Fairs held in Sacramento in 1867 and 1868, no award being made as to the relative excellence of the exhibit in that department or class of the Mechanics' Institute Fair of this season.

KNIT WOOLEN GOODS.—The only manufactory of knit woollen goods on this coast is that of the Pacific Woollen Mills, of this city. These mills are located on Folsom street, between Eighteenth and Nineteenth streets, Mission Dolores. The first manufactures were offered in the market in August, 1867, and comprised the cheaper grades of goods. These were found to be much superior in quality to similar styles imported, and at once found ready sale, orders at times being much in advance of ability of the mills to deliver. During the spring of this year machinery for the finest styles of goods imported was received and put up, and the mills are now turning out styles of wear that have no equal in the manufactories of the United States and no superiors imported. The Pacific Woollen Mills now manufacture two hundred and thirty styles and varieties of knit goods. These articles are manufactured from the finest wool obtainable in this State and Oregon, while a still finer quality is imported from Australia, to make into the very best shirts, drawers, and socks. At the Mechanics' Institute Fair this year the manufactures of these mills occupied seventy-five feet wall, and the same length of table, making a display that excited the surprise and admiration of all who saw it. In view of the importance of the manufacture and excellence of material the Board of Managers of the late Mechanics' Fair awarded a gold medal to the Pacific Woollen Mills.

COTTON BATTING.—The manufacture of cotton wadding, batting, etc., was introduced by I. C. Mayer & Son, who have their mills on the south side of Turk, between Scott and Pierce Streets, in this city. These mills make all varieties of cotton batting and wadding from imported cotton, the quality of their manufacture being equal to the best from the Atlantic States.

Another cotton batting mill was put in operation during the past year by Messrs. S. Folk & Co., at the corner of Fifth and Market Streets. This mill is run under a new patent process, the batting being made from old canvas and other heavy cotton cloth.

CORDAGE.—The only hemp cordage manufactory on this coast is that of the Pacific Cordage Company, owned by Messrs. Tubbs & Co., and located at the Potrero. It was established in 1856, and by the addition of improved machinery is at present capable of consuming 3,500,000 pounds hemp yearly. The manufactures of this Company are not surpassed in the United States, the cordage excluding all competition in this market.

ASSAYING ESTABLISHMENTS.—The assaying and refining establishments located in this city are both numerous and extensive, the great bulk of the gold and silver product of California, Nevada, Oregon, and portions of Idaho and Montana Territories, being assayed and refined in San Francisco. The principal works are those of the San Francisco Assaying and Refining Company, on Brannan Street, and the Pacific Gold and Silver Refinery, located near the Mission Dolores. Messrs. Hentsch & Berton, G. E. Rogers, Rhein, Hemme & Co., are also engaged in the same business, and assay large amounts of bullion annually.

CHEMICALS.—The production of chemicals in San Francisco is both quite extensive and varied, mostly owing to the large demand for acids, etc., used in the reduction and refining of the precious metals.

Almost the entire supplies of acids used by private assaying and refining establishments on the Pacific Coast, as well as the U. S. Branch Mint, are furnished from chemical works in this city. The productions of these works are notable for their purity and strength, in both of which particulars they are said to possess great advantages over the bulk of similar articles formerly and to some extent now imported. The first works of this description erected on the Pacific Coast, was the San Francisco Chemical Works, located at the Mission Dolores. These works erected in 1856, supplied the most of the acids used in the U. S. Branch Mint, and private refining establishments, up to the commencement of 1867. They in common with other local establishments derive their supplies of nitrate of soda from Iquiqui, Peru, and at first also imported their sulphur, but now mostly use the latter article procured from Lake and Colusa counties.

During 1866, the Golden City Chemical Works were completed, and for the last two years have produced largely of acids and other chemicals, the works being very extensive and perfect.

The Pacific Chemical Works commenced manufacturing in 1867, their works being located on Sixteenth, between Folsom and Harrison Streets. The establishment is a most complete one, comprising furnaces, evaporating baths, and chemical apparatus suitable for the manufacture of drugs, medicines, etc., required by druggists, physicians, and the mercantile community in general. The proprietors are Messrs. Falkenau & Hanks, who have one of the most complete laboratories on the Pacific Coast. Mr. Falkenau also being the State Assayer.

Crane & Brigham have quite extensive chemical works, located at Hunter's Point, near South San Francisco. These works produce largely sulphate of copper or blue vitriol, which is used very extensively in the refining of silver as also by our farmers for preserving wheat from smut. The quality of the sulphate of copper produced by these works is most excellent, it being free from the adulterations so common in the imported article. One feature of these works is the production of sulphate of copper from low grade copper ores, which is said to be the only instance of the kind in the United States. The sulphate of copper made by Crane & Brigham took the first premium at the late Mechanics' Fair in this city, and the State Fair at Sacramento, in 1867.

The Bay View Chemical Works, located at the Potrero, in this city, also exhibited at the late Mechanics' Fair, some fine specimens of sal soda crystals made from imported soda ash, the quality being unexceptionable.

OIL WORKS.—The Phoenix Oil Works owned by C. H. Harrison, and located at 517 Front Street, are the only ones of their kind in the State. They refine whale, sperm, and elephant oils, having a capacity of about 4,000 barrels per annum.

GLASS CUTTING AND STAINING.—These branches of manufacture have largely increased during the past year, the representation of the different varieties or styles of art at the late Mechanics' Fair, being highly creditable and of greater extent than before known. The displays of ground, stained, and cut glass, made by John Mallon and Thomas O'Neil were very fine, and showed conclusively that the requirements of our people can be supplied by domestic manufactures. R. Mills exhibited both stained and embossed glass of fine designs. Noble & Gallagher, embossed glass; and A. Mussard, engraving on glass, all showing great merit.

SAW TEETH.—There are two manufactories of patent saw teeth in this city, those of N. W. Spaulding, and Miller's Adjustable Saw Tooth Co. The establishment of Mr. Spaulding is located on Fremont Street near Market, and employs 13 men, making 30,000 teeth per year, the manufacture