

**Associations, Literary, Protective, etc.**

For a description of the different associations, the reader is referred to the Appendix, page 439, in which will be found the officers and operations of each during the past year. The progress made by many of these associations, reflect credit upon the members thereof, and is worthy of the liberality so generously exhibited in their support.

**Fire Department.**

The Department at present consists of 834 members—divided into 14 engine and 2 hook-and-ladder companies. For their accommodation there are 16 houses; and for their use, 14 fire-engines, 14 hose-carriages, and two hook-and-ladder trucks. There are in the city 38 cisterns, capable of holding 1,641,900 gallons of water—many of them substantially built of brick and cement.

We refer our readers to the Appendix, page 424, for a complete description of the organization of this important branch of the public service, in which will be found a mass of information concerning the different companies, useful to its members, and interesting to every citizen.

**San Francisco Water Works.**

This company, incorporated June 15th, 1857, was organized for the purpose of supplying the city of San Francisco with pure water.

This supply is obtained from a stream which discharges itself into the outer bay near Point Lobos. The water is of the purest quality, being very soft, and thoroughly filtered in its passage through the sand hills surrounding the stream, and lying between the Mission Dolores and the ocean. At the mouth of the creek a dam has been erected, and the water is thence conveyed to the city by an aqueduct seven miles in length, which follows the shores of the bay until it reaches Black Point, with a grade partly of thirty inches and partly of three feet to the mile.

The pumping works at Black Point consist of an engine of 100-horse power, working a pump of capacity sufficient to raise 1,400,000 gallons 140 feet high in 24 hours, with facilities for the attachment of another to raise half that quantity 300 feet in the same time. The present pump raises water into a reservoir of 8,000,000 gallons capacity, situate at corner of Francisco and Hyde streets, at an elevation above the bay of 145 feet. A new reservoir is in process of construction, corner of Hyde and Greenwich streets, to hold 3,000,000 gallons at a height above the bay of

308 feet. Connected with the lower reservoir there are already laid in the city 74,000 feet of pipe, extending from North Beach to and beyond South Park, supplying most of the thickly settled part of the city, south of Market street, and north of that, all of which is lower than the corner of Clay and Stockton streets. Attached to these pipes there are 100 fire hydrants.

For the upper reservoir the pipes are on the way, and it is expected water will be introduced by them to the higher portions of the city by March, 1861. The capital stock of the company is \$1,500,000; present cost of the works, \$670,000. Water first introduced into the city, September 27, 1858. Present daily consumption about 350,000 gallons. Office, 194 Montgomery street.

*Officers*—President, John Bensley; Secretary, Peter Carter; Trustees, John Bensley, Anthony Chabot, H. S. Dexter, F. F. Low, C. W. Simpkins; Engineer, C. W. Boynton; Registrar, W. B. Swan.

**Market Street Railroad.**

This road, incorporated in 1859, extends from Market street to the Mission Dolores, a distance of three miles. Capital, \$250,000. The laying of the rails commenced June 7, and the road was completed July 4, 1860. This enterprise is one of considerable importance to the future growth and prosperity of San Francisco. In New York and elsewhere, the operations of railroads through the heart of cities to their environs, have done more than anything else to increase their prosperity and stimulate the erection of dwellings. Real estate has been made more valuable, and the comfort and health of the inhabitants advanced in a remarkable manner. These results, so widely known and appreciated in the Atlantic States, are certain to follow in this city, from the construction of the "Market Street Railroad." *Officers*: President, Thomas Hayes; Secretary, S. C. Simmons. *Directors*: Thos. Hayes, Peter Donahue, Michael Hayes, J. P. Haven, H. A. Cobb, Frank McCoppin.

**Review of Industrial Enterprises.**

The Business Directory, published in the present volume, will best exhibit the progress already made in the different branches of mechanical industry in this city. We propose in this review to make a brief reference to a few of the most important branches, and to exhibit some very interesting statistics collected during the progress of our labors.