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GOLDEN STATE AND MINERS' IRON WORKS

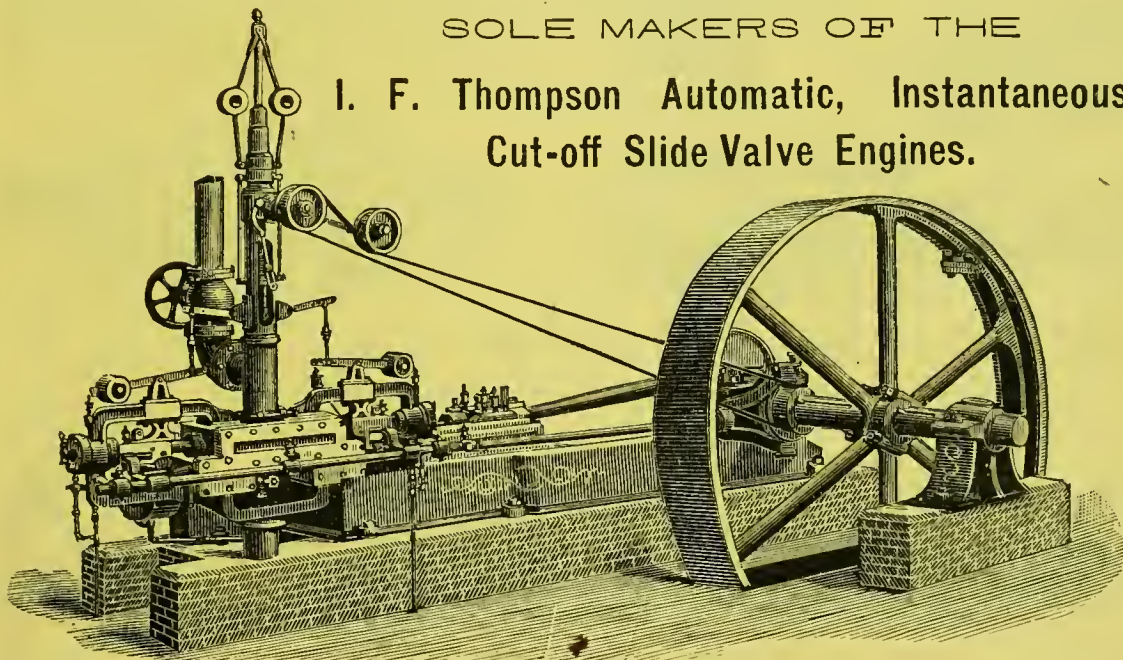
Miscellaneous Machinery AND CASTINGS OF ALL KINDS.

MINING, PUMPING, HOISTING,

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I. F. Thompson Automatic, Instantaneous Cut-off Slide Valve Engines.



**Design and mechanism entirely new. Conceded by all experts to be the best ever built.
A better cut-off engine than the best Corliss, with all the simplicity
and durability of the common slide valve engine.**

**The Committee of Awards, Mechanics' Institute Industrial Exposition,
San Francisco, 1889, say:**

"This engine, which is of the Automatic, Independent Cut-off class, presents many **radical improvements** upon those which have **hitherto been considered the highest type of steam engineering practice**, inasmuch as the same results are obtained with a great reduction in the number of working parts and joints. The engine is compact, strong, and symmetrical in design, and presents a handsome appearance. It is fitted with four plain slide valves, working entirely independently of each other in separate chambers, all four valves and cut-off being operated with **one eccentric**. It is a remarkable feature of this engine that **all four valves and cut-off are operated with but one joint or working part** between them and the eccentric. The cut-off, which is exceedingly rapid, is operated by steam pressure. Owing to its simplicity, repairs would be reduced to a minimum." Gold Medal.

The governor is very sensitive, a movement of one-quarter of an inch of the balls making all the variation from a closed to a full open port. Typical tests of its thorough control by the governor is shown in the following engines now working:

A 14-inch bore, 30-inch stroke, running our works.

A 16-inch bore, 30-inch " " St. Helena Electric Light Plant, St. Helena, Cal

A 28 inch bore, 48-inch " " Mendocino Saw Mill, Mendocino, Cal.

A 16-inch bore, 30-inch " " New London Quartz Mill, Plymouth, Amador Co., Cal.

A 24-inch bore, 42-inch " " Korbel Bros. Box Factory, San Francisco.

All sizes built. Examine before buying any other kind.

Sole makers of Hercules and Atlas Dredging Machines. Sole makers of Roller Ore Feeders, the best and cheapest offered.

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