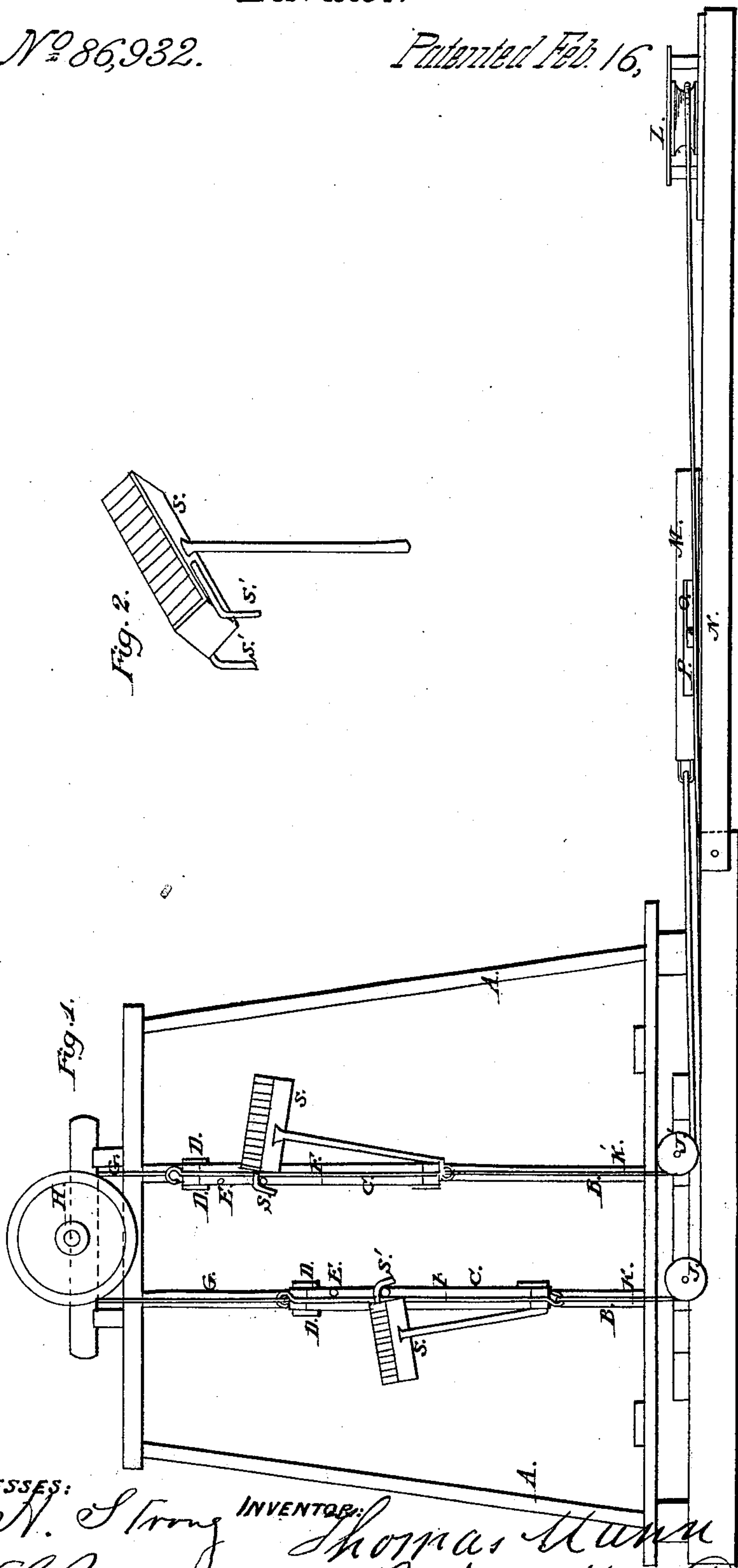
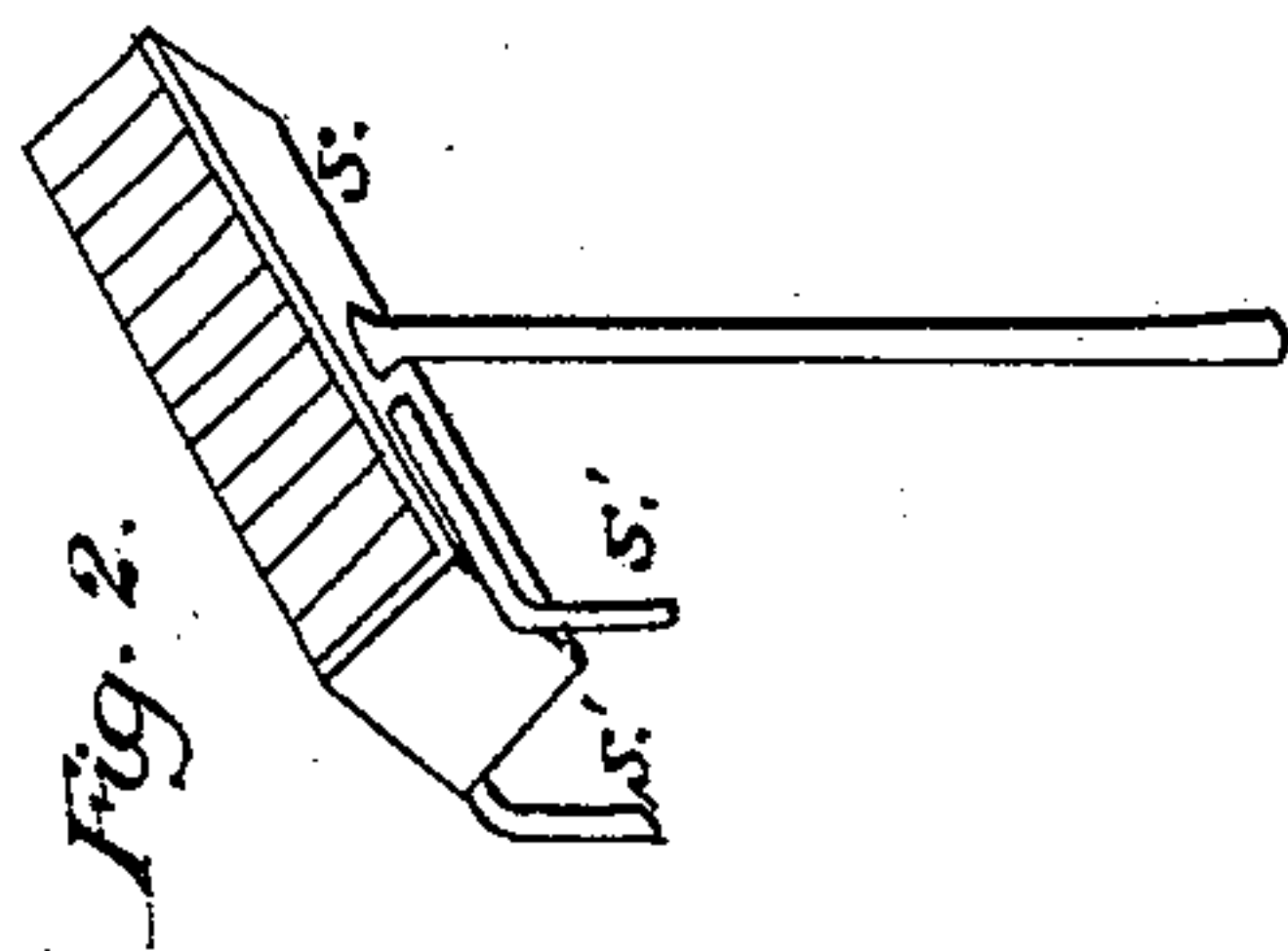


*Elevator.*

*N<sup>o</sup> 86,932.*

*Patented Feb. 16,*

1869.



WITNESSES:

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Geo. N. Strong  
J. L. Boone

J. L. Boone

**INVENTORY:**

ENTOR: Thomas Munu

By his attys Dewey & Co

# United States Patent Office.

THOMAS MANN, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 86,932, dated February 16, 1869; antedated February 1, 1869.

## IMPROVEMENT IN BRICK-ELEVATOR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS MANN, of the city and county of San Francisco, State of California, have invented an Improved Machine for Hoisting Brick and Mortar for building-purposes; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use my said invention or improvements without further invention or experiment.

The nature of my invention is to provide an improved device for hoisting brick and mortar for building-purposes, and is intended to be employed after the first, or lower story has been constructed.

My invention consists of a frame, which is well braced, having vertical posts, or ways, on which gates slide up and down. The gates are constructed so as to allow of mortar and brick-hods being hung upon them, and, while one gate is ascending on one side with loaded hods, the opposite gate is descending with empty hods, by means of cords connected to the gates, passing over a sheave, or pulley, at the top of the frame.

For hoisting, two cords are also connected to the bottom of the gates, passing over pulleys, and attached to the ends of a brake, which slides back and forth upon a horizontal frame.

To more fully illustrate and describe my invention, reference is had to the accompanying drawings, and the letters marked thereon, of which—

Figure 1 is a side sectional elevation of my apparatus.

Figure 2 is a view of a hod, arranged for use in the machine.

A A represent the frame of my machine, suitably braced, which may be anchored to the joists or trimmers of the building.

In the centre of the frame are upright posts, or ways, B B B B, upon which slide the gates C C, which are held to the ways by projecting plates D D D D, admitting of an easy up-and-down movement, without much friction.

The gates are provided with suitable cross-rods, E E, for hanging the hods upon.

A vertical rod, F, passes through each gate, having eyes at each end, and to the upper of which a cord or rope, G, is attached, passing over a pulley, H, at the top of the frame.

Anchored to the ground, or lower floor of the build-

ing is a frame, J, which has two pulleys, or sheave-blocks, J J', stationed near each other, and to the lower eyes of the vertical gate-rods are attached cords, K K', the cord K operating on the pulley J, and passing through a block, L, and connected to one end of a brake.

The cord or rope K', moves in the sheave J', and is attached to the opposite end of the brake M.

The brake M is moved along the extension-frame N, forward and back, by the cords, by means of horse-power, or otherwise, the cord K' passing through the opposite end of the sweep O.

A slot, P, is made in the brake, to allow the sweep to act freely, and when the gates are raised or lowered, they are held in position, by the driver, by a strap, or holder, by means of a curved rod attached to each side of the opening in the brake, which admits of the holder or strap being carried or changed from end to end, beneath the sweep, to assist in holding the gates in position while the horse is changing his direction of travel.

The hods S S are of the ordinary construction, and are provided with hooks, S' S', and placed along the cross-rods of the gate to the desired number, the handles resting against the rods beneath, and while the loaded hods are being hoisted upon the gate, the empty ones are passing down the other, while laborers are stationed at the top, to discharge the hods and place them upon the descending gate. By this means, I have a machine that will save much hard manual labor.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

1. The gates C C, sliding on the ways B B B B, operated by the ropes or cords G K K', and pulleys and blocks H J J' L, substantially as and for the purpose set forth.

2. The peculiar construction of the brake M with the sweep O, operating in the slot P, so that the driver may hold the gates in position while the horse is changing his direction of travel, substantially as described.

3. The hooks S' S', for attaching the hods to the gates, substantially as described.

In witness whereof, I have hereunto set my hand and seal.

THOMAS MANN. [L. S.]

Witnesses:

JNO. L. BOONE,

GEO. H. STRONG.