

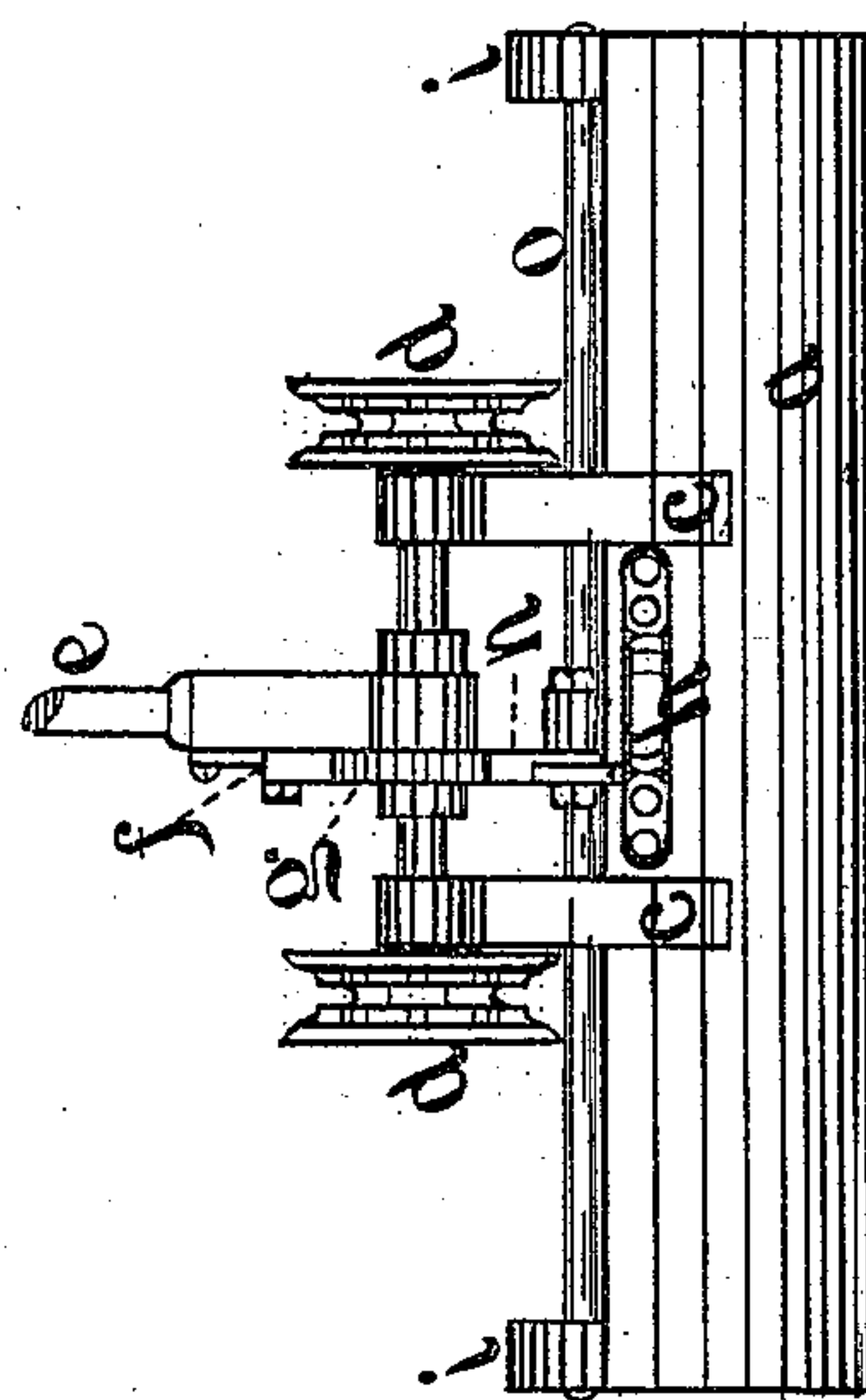
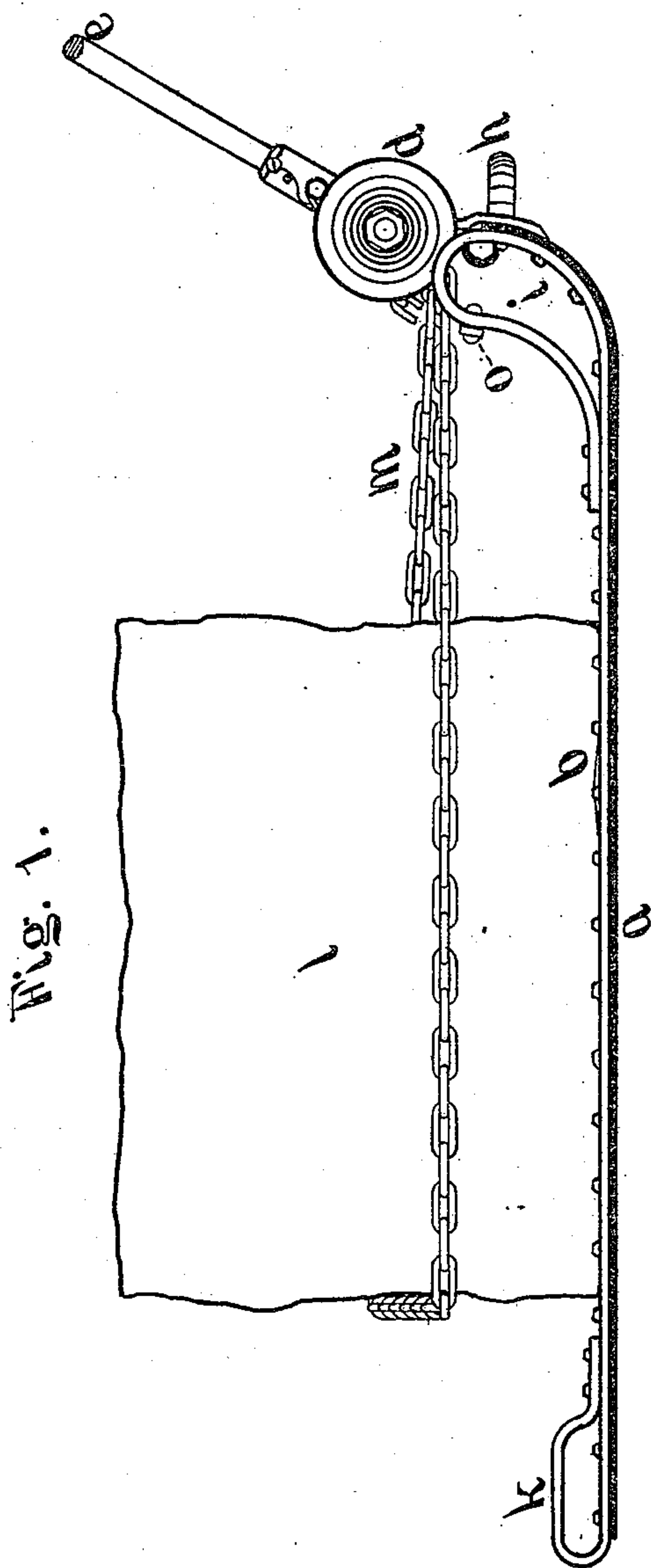
(No Model.)

2 Sheets—Sheet 1.

T. SHAW.
STONE DRAG.

No. 355,792.

Patented Jan. 11, 1887.



WITNESSES:
J. Logan Pitts
Wm Garwood

T. Shaw, m. & c. INVENTOR

(No Model.)

2 Sheets—Sheet 2.

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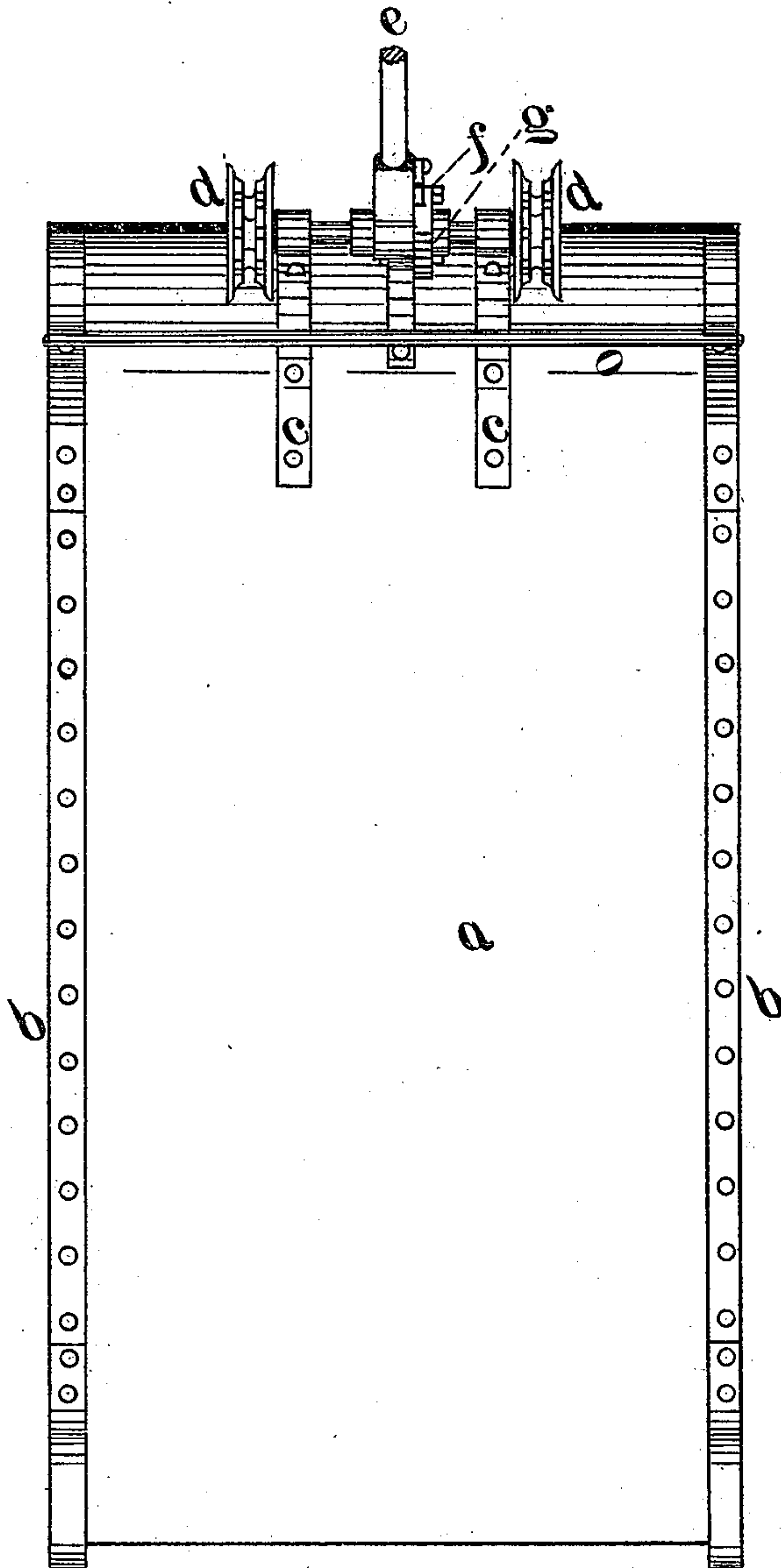


Fig. 3.

WITNESSES:
J. Logan Fitts
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UNITED STATES PATENT OFFICE.

THOMAS SHAW, OF PHILADELPHIA, PENNSYLVANIA.

STONE-DRAG.

SPECIFICATION forming part of Letters Patent No. 355,792, dated January 11, 1887.

Application filed November 13, 1886. Serial No. 218,774. (No model.)

To all whom it may concern:

Be it known that I, THOMAS SHAW, of the city and county of Philadelphia, Pennsylvania, have invented a new and improved article of manufacture, known as a "Stone-Drag;" and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists in the construction of a stone-drag from sheet metal, and providing the same with suitable stays, and in the provision of a chain-windlass, in the manner and for the purpose hereinafter described.

The object of the invention is to facilitate the loading of a drag with heavy material and to lessen the friction of hauling and to lessen the wear and tear.

In order to enable others to use and practice my invention, I will proceed to describe its construction and operation.

On reference to the accompanying drawings, which form part of the specification, Figure 1 represents a side view of drag in position loaded with stone; Fig. 2, a front view of the drag, and Fig 3 a top view of the same.

Similar letters refer to similar parts, of which *a* is a flat steel plate, curved on its front end and braced on both sides by flat wrought-iron bracing *b*, which is firmly riveted to the sheet *a* and is looped on its rear end, *k*, in the manner shown, to furnish a hand-hold, and is looped and riveted on forward end, *i*, in the manner shown, to act as a bracing to the curved front of sheet *a*.

o is a cross-bar, riveted to brace at *i*, Fig. 1, to limit forward movement of load.

h is an ordinary iron loop for attachment of horses, &c.

d d are ordinary chain-wheels, secured to ordinary axle, held in bearings *c c*, which are riveted securely to sheet *a*. The said chain-wheels act as an ordinary windlass when operated by hand through lever *e*. Said lever is provided with a pawl, *f*, working in ordinary ratchet-wheel *g* on the axle. A pawl, *n*, is provided for holding the load, and the chain *m* for grasping the load to be drawn up by the windlass, all operated in the manner herein-after explained.

The drag is used and operated in this wise: The teamster places the rear of the drag in

position to receive a heavy object, as the stone *l*, for example, when he throws a loose chain, *m*, over the stone, and the loose ends of the chain over the two chain-wheels *d*, when he vibrates lever *e* by hand, causing the chain-wheels to rotate in a slow and powerful manner, enabling one man to draw the load upon the drag in a speedy manner compared with the ordinary method, which generally requires several men for a more prolonged period.

Heretofore the drags have been fashioned out of wood of a flat plank character, the great thickness of which interfered with rapid loading, and the extra friction induced by rough stones on a wood surface greatly retarded the loading and the hauling of the same, all of which is overcome in my invention.

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

1. A stone-drag composed of a metal plate curved at its front end and having metal strengthening-ribs secured to the side edges of the plate, substantially as described.

2. A stone-drag composed of a metal plate bent at its forward end, and metal ribs secured to the side edges of the plate, the ribs being bent at the rear to form loops, substantially as described.

3. A stone-drag composed of a metal plate bent at its forward end, and metal ribs secured to the side edges of the plate, bent to form a brace for the front curved ends, substantially as described.

4. A stone-drag composed of a metal plate having metallic ribs secured to its sides, the ribs being bent at the rear to form handles and at the front to support the curved portion of the plate, substantially as described.

5. The combination, with a stone-drag composed of a metal plate with side supports or braces and unobstructed rear end for lying flat upon the ground, of a windlass secured to the front and adapted to draw the load over said end upon the drag, substantially as described.

6. The combination, with a metal drag having braced sides and a flat unobstructed rear end, of a chain-windlass supported upon the braced and curved front end and adapted to draw the load over the rear end upon the drag, substantially as described.

Witnesses: THOMAS SHAW.
J. LOGAN FITTS,
WM. GARWOOD.