

(No Model.)

T. SHAW.

2 Sheets—Sheet 1.

STONE DRAG.

No. 355,792.

Patented Jan. 11, 1887.

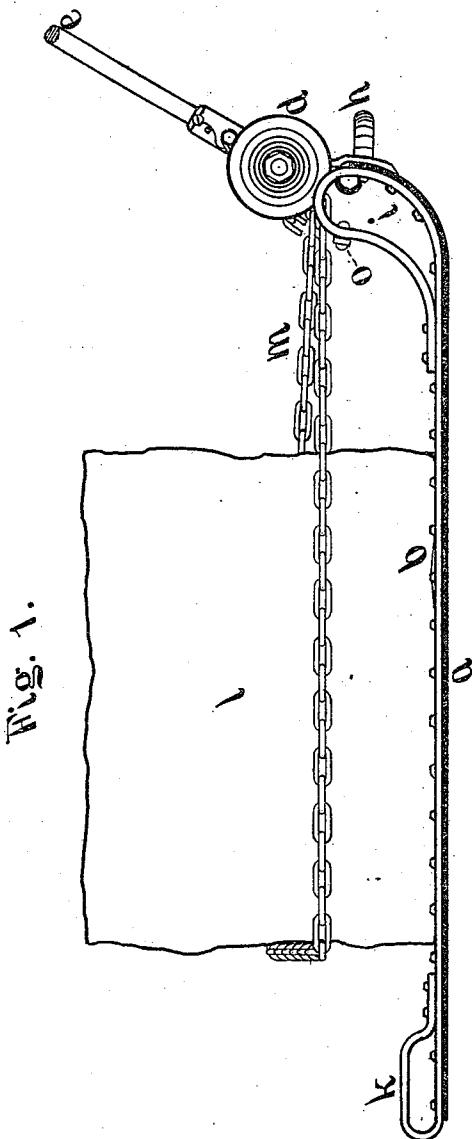


Fig. 1.

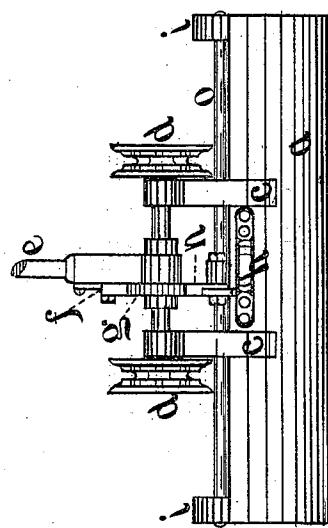


Fig. 2.

WITNESSES:  
J. Logan Fitts  
Wm Garwood

T. Shaw, m.s. INVENTOR

(No Model.)

2 Sheets—Sheet 2.

T. SHAW.

STONE DRAG.

No. 355,792.

Patented Jan. 11, 1887.

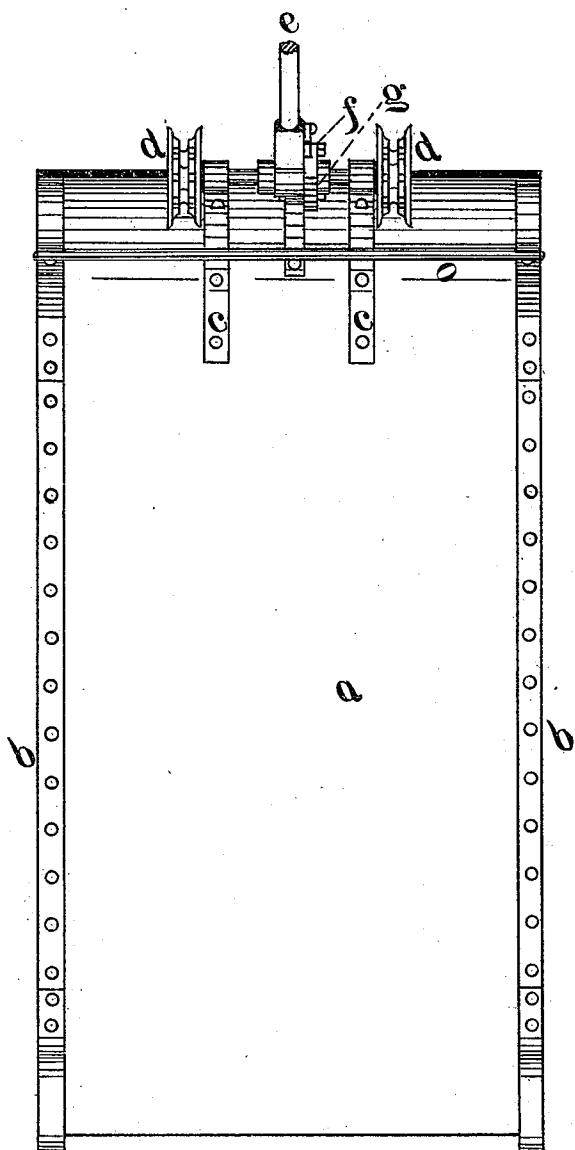


Fig. 3.

WITNESSES:

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INVENTOR

# 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 <sup>5</sup> 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 <sup>15</sup> 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.

<sup>20</sup> 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, <sup>25</sup> 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 <sup>30</sup> 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 <sup>35</sup> 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*.

<sup>40</sup> *o* is a cross-bar, riveted to brace at *i*, Fig. 1, to limit forward movement of load.

<sup>45</sup> *h* is an ordinary iron loop for attachment of horses, &c.

<sup>50</sup> *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 <sup>55</sup> *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 <sup>65</sup> 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 <sup>70</sup> 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 <sup>75</sup> 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 <sup>80</sup> 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 <sup>85</sup> 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 <sup>90</sup> 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 <sup>95</sup> 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.