

(No Model.)

W. A. STONER.

DEVICE FOR RAISING AND MOVING HEAVY BODIES.

No. 466,585.

Patented Jan. 5, 1892.

Fig. 1.

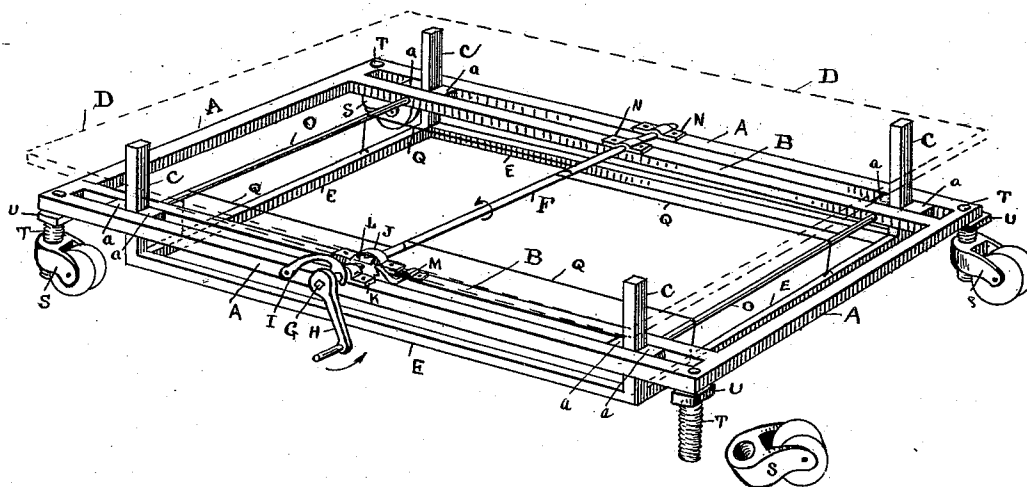


Fig. 2.

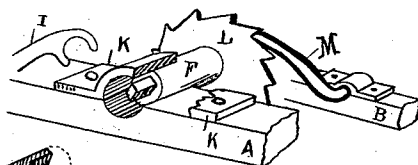
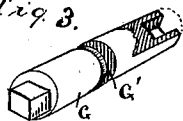


Fig. 3.



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UNITED STATES PATENT OFFICE.

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DEVICE FOR RAISING AND MOVING HEAVY BODIES.

SPECIFICATION forming part of Letters Patent No. 466,585, dated January 5, 1892.

Application filed September 25, 1891. Serial No. 406,784. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. STONER, a citizen of the United States, residing at Englewood, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Devices for Raising and Moving Heavy Bodies; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to devices for raising and moving stoves and other heavy articles.

The object of the invention is to provide an elevating-platform of peculiar construction which may be mounted on casters or wheels and placed under the article to be moved, and by a simple movement the article may be raised from the ground and transported with perfect ease.

In the drawings hereto annexed, Figure 1 represents a perspective view of the invention. Fig. 2 is a perspective view of a part of the invention used for operating the lifting portion of the invention. Fig. 3 is also a perspective view of a shaft used in connection with the part in Fig. 2.

A rectangular carrying-frame composed of the rods or beams A A is mounted on casters, as shown, and inside of same are placed two rods B B, one at each side and parallel with the sides of the said frame A A.

Between the rods A and B of the frame and near the extreme corners thereof are set the blocks *a a*, between which are allowed to slide the uprights C C, which are rigidly secured to a lower frame E E. Upon the upper ends of these upright rods rests a platform D D, as shown in dotted lines, Fig. 1. A shaft F, having its bearings in boxings K J N N, is placed on top of the main frame A A B B, as shown. The ends of two wires or ropes Q Q are fastened to an end rod of the frame E E, and, rising perpendicularly, passes over a rod O, secured between the frame-bars B B, immediately over the said rod E. Then the said

wires are fastened to the shaft F, as shown, thence pass over the rod O at the other end of frame and down to the bar E at that end. The said shaft F is cut off within the boxing K, and the end thereof is formed into a square designed to engage with a square hole or socket in a shaft G, which forms an extension to the shaft F. The object of this construction is that when the device is being placed under any article to be raised or moved that the said shaft G may be taken off out of the way. When the said shaft G is placed in connection with the shaft F, it is held in position by the catch I, which sets into a slot G', cut in the periphery of said shaft G, and a crank or wrench H is provided to assist in the operation.

The operation of the device is as follows: When the device is to be placed under a body for moving, the shaft G may be removed, if necessary, by lifting the catch I and withdrawing the said shaft from the boxing. Afterward the said shaft is replaced and the wrench or crank turned in a direction opposite to the motion of the hands of a clock (or to the left in this case,) and thereby the wires Q Q are drawn up and wrapped around the shaft F, and of course they raise the frame E E, with the upright bars C C and platform D D, as also the body resting on the said platform. A pawl M and a ratchet L serve to sustain the weight of the body after raising it from the ground; also, the whole apparatus may be raised by the bolts T, which screw down through the body of the casters S, the upper end of the said bolts T being simply allowed to turn freely in the frame A A without binding. A wrench is placed on the squared portion U in the bolts T and thereby the purpose is accomplished.

I claim—

1. In a device for raising and moving heavy bodies, the main frame composed of the bars A A B B, the blocks *a a*, held between the said bars A B, the casters S, shaft F, with the wires Q Q, and the rods O O, in combination with the frame composed of the bars E E, supporting the upright bars C C and platform D, substantially as herein set forth and described.

2. In a device for raising and moving heavy
bodies, the main frame composed of the bars
A A B B, with the shaft F journaled thereon,
one end of shaft being provided with a pawl
5 and ratchet, and said shaft being adapted to
engage with a shorter shaft G within the box-
ing K and said shaft G being held therein by
the catch I, and the wires Q Q, in combi-
nation with the frame composed of the bars

E E, supporting the upright bars C C and 10
platform D, as herein set forth and described.

In testimony whereof I affix my signature in
presence of two witnesses.

WILLIAM A. STONER.

Witnesses:

JOHN N. RADLE,
REUBEN A. RADLE.