

No. 698,506.

Patented Apr. 29, 1902.

A. H. ILLINGWORTH.

MECHANISM FOR PRESSING WOOL OR THE LIKE INTO BAGS.

(Application filed Jan. 13, 1902.)

(No Model.)

2 Sheets—Sheet 1.

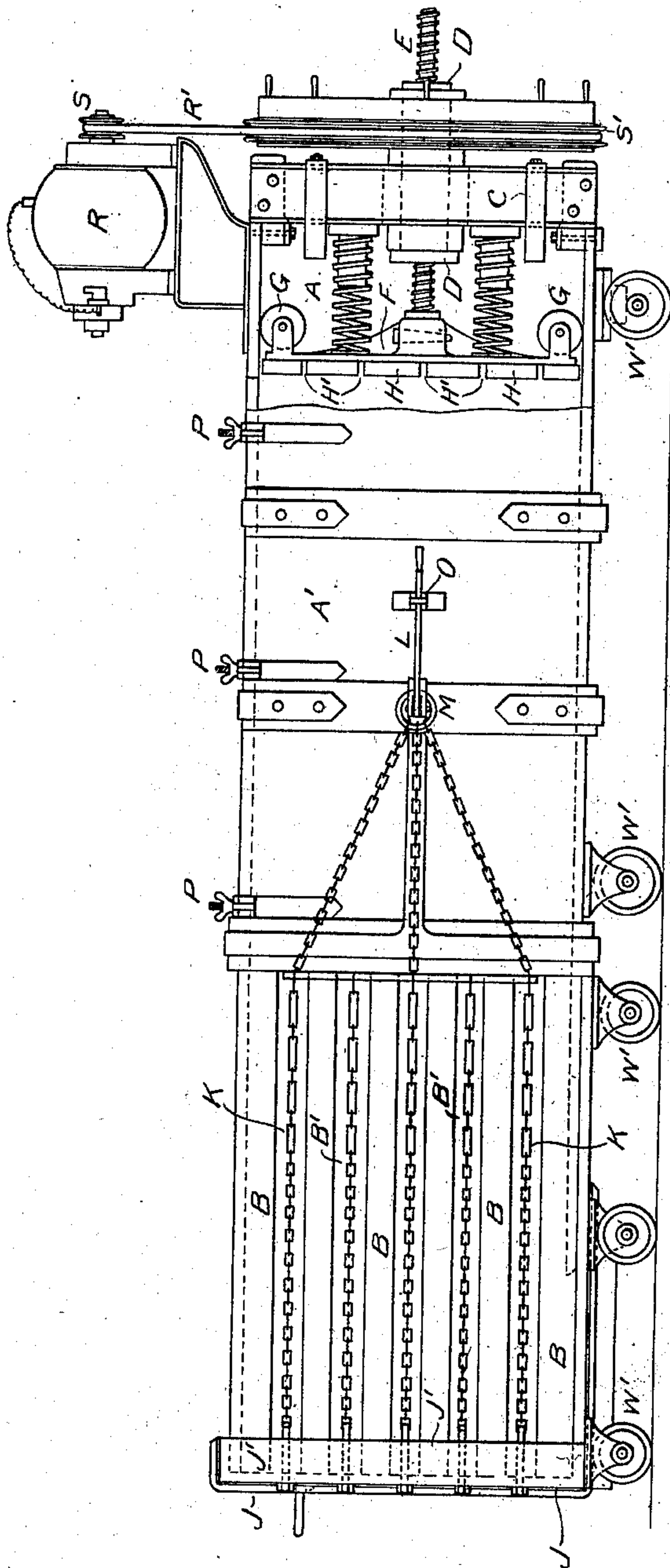


FIG. 1.

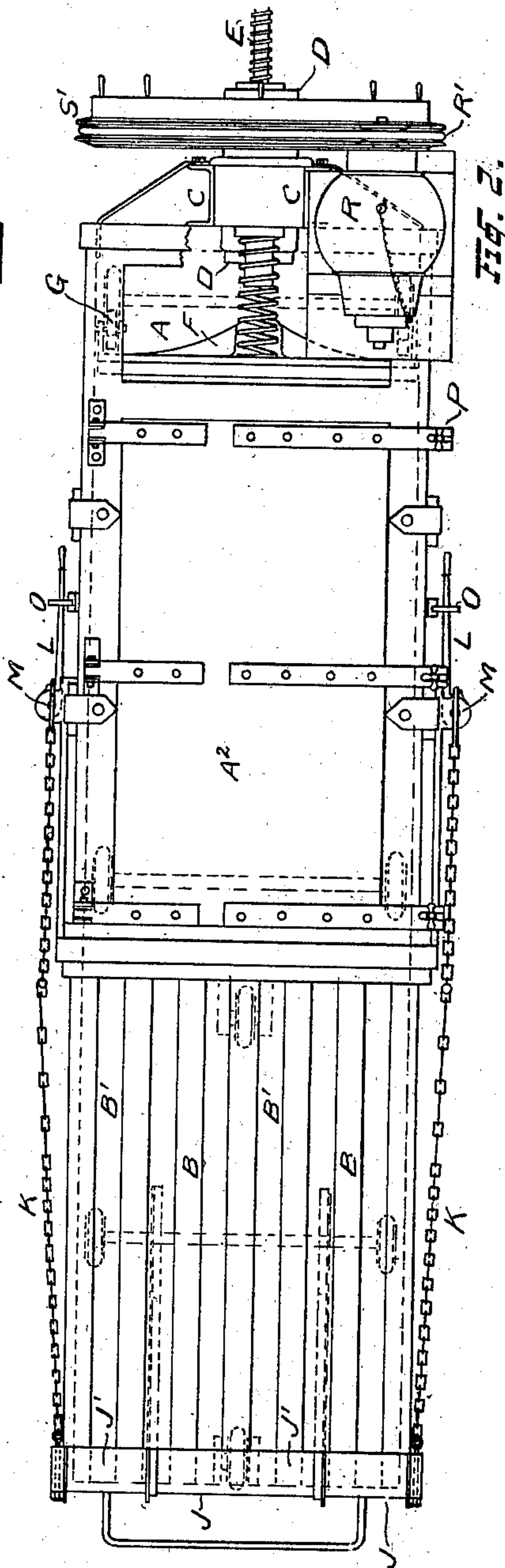


FIG. 2.

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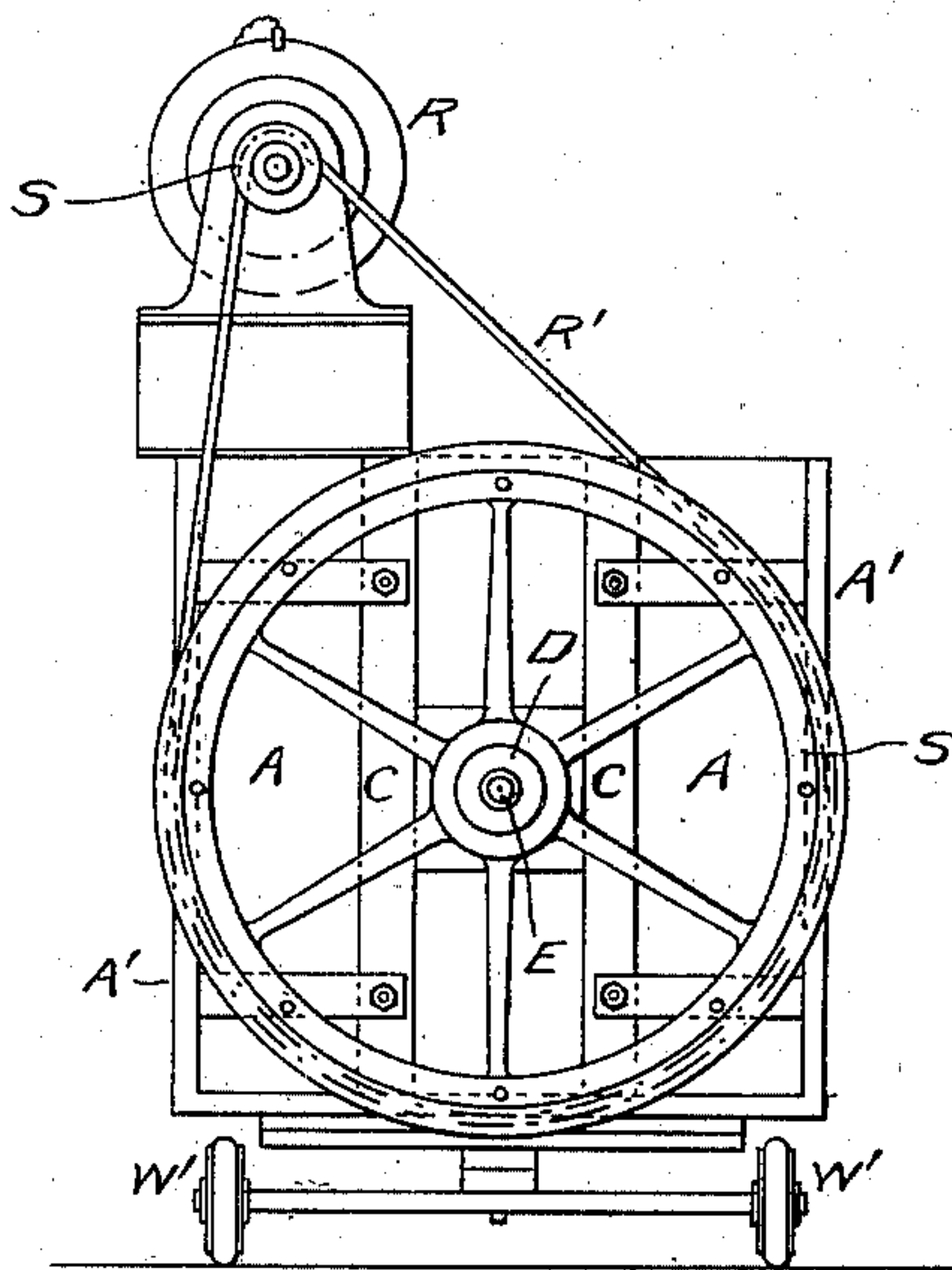


Fig. 3.

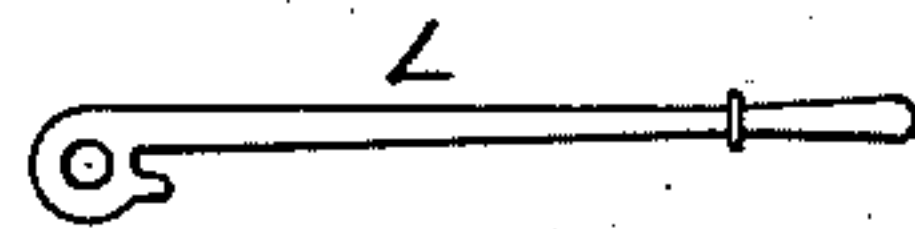


Fig. 6.

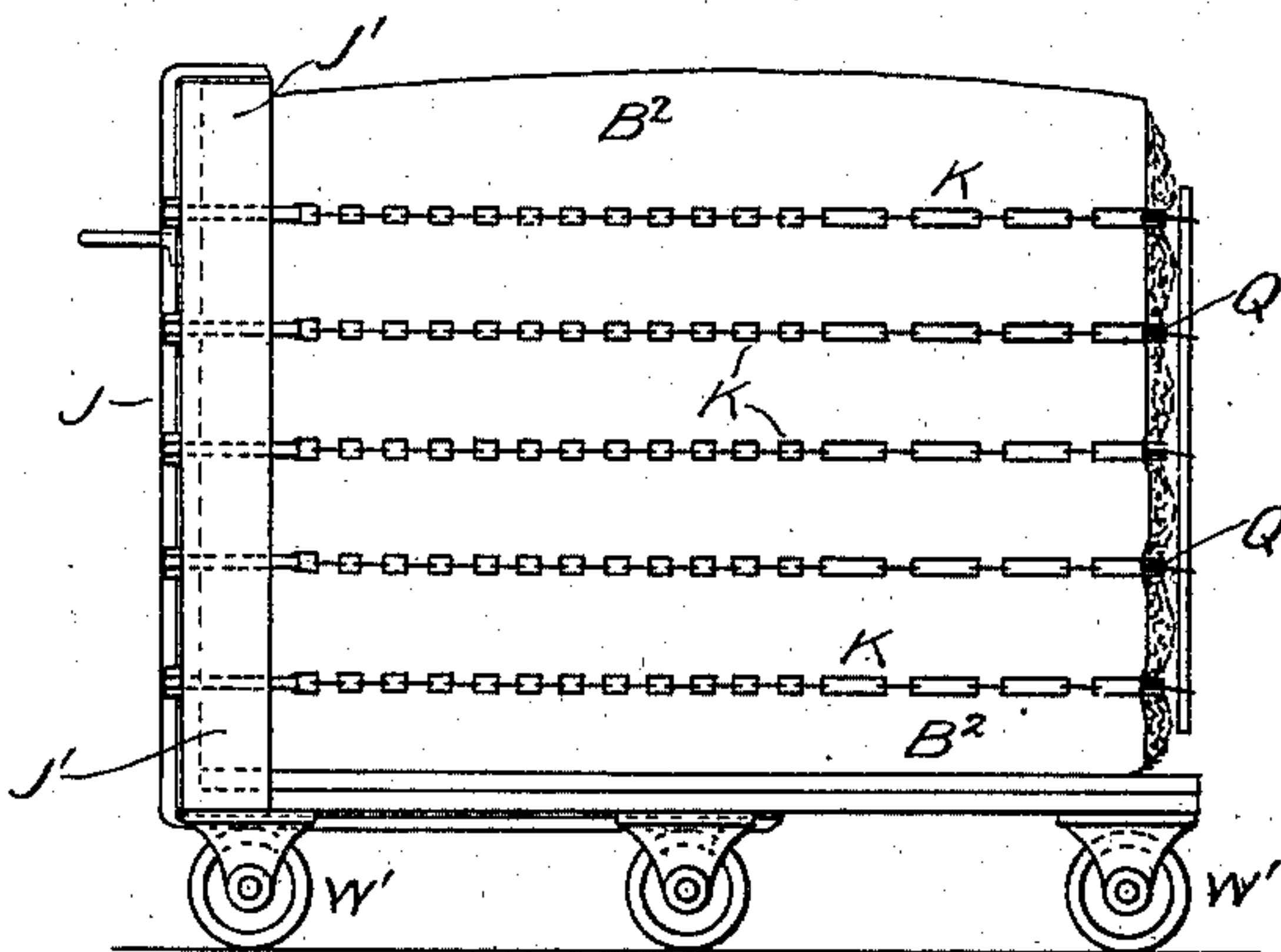


Fig. 4.

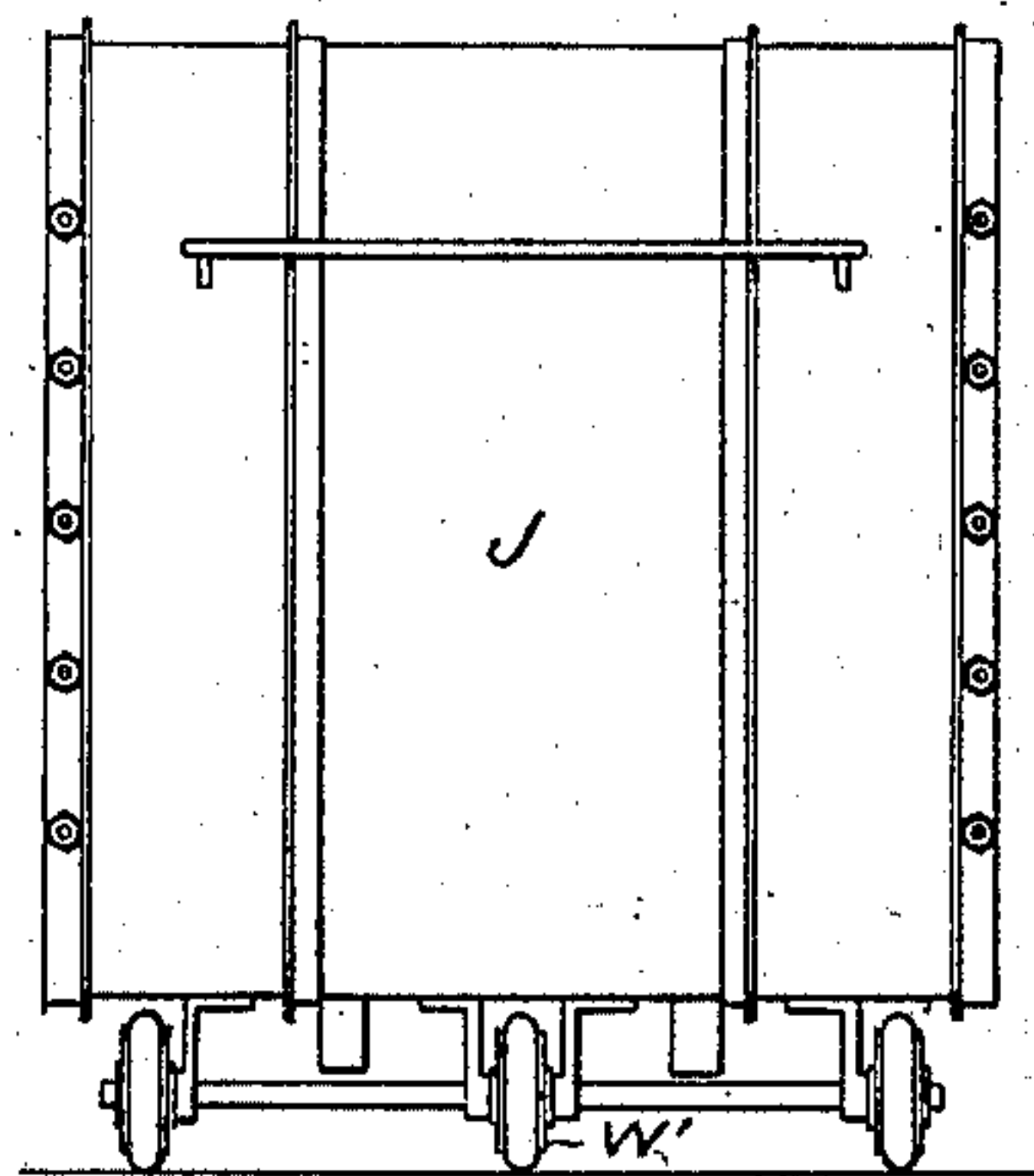


Fig. 5.

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ALFRED HOLDEN ILLINGWORTH, OF ADDINGHAM, ENGLAND.

MECHANISM FOR PRESSING WOOL OR THE LIKE INTO BAGS.

SPECIFICATION forming part of Letters Patent No. 698,506, dated April 29, 1902.

Application filed January 13, 1902. Serial No. 89,550. (No model.)

To all whom it may concern:

Be it known that I, ALFRED HOLDEN ILLINGWORTH, a subject of the King of Great Britain and Ireland, residing at High House, Addingham, in the county of York, England, have invented certain new and useful Improvements in and Relating to Pressing Wool or the Like into Bags, (for which provisional protection has been granted in Great Britain, numbered 12,052, dated June 13, 1901,) of which the following is a specification.

This invention has for its object the combination of certain mechanism so arranged that wool and the like may be readily and effectually packed and pressed into a bag in such a manner that the bag, with the contents still under pressure, may be removed from the press-head portion of the apparatus and the pressed wool or the like retained within the bag until the open end of the bag is covered and the contents secured within the bag.

In describing my invention in detail reference is made to the accompanying sheets of drawings, in which—

Figure 1 represents a side elevation of my apparatus, Fig. 2 representing a plan. Fig. 3 is a view of the screw or press head end of the press; Fig. 4, an elevation of the carriage of the detachable end of press, supporting a bag with the contents under pressure; Fig. 5, an end view of carriage, and Fig. 6 a detailed view of one of the levers.

In carrying out my invention a rectangular receptacle A, preferably of square section, is formed with solid sides A' for a portion of its length. The remainder of the receptacle is of the same cross-section, constructed of longitudinal bars B with spaces B', the whole of which may be carried by wheels W', and thus rendered portable for use in different parts of the stores.

To the solid-sided portion of the receptacle A are fixed upright end supports C, provided with a bearing for carrying a circular screw-threaded nut D, engaging with a screw E, one end of which is attached to press-head F, supported and guided within the receptacle A by wheels G. To the press-head F a series of cross-bars H are attached, leaving a narrow space H' between each cross-bar for the purpose as hereinafter described.

The bag B², into which the wool or the like

is to be pressed, is put over the longitudinal bars B, covering same for the entire or near the total length, the ends of the bars B covered by the bag engaging within the recess at rigid end J, formed by the overlapping bars J', attached to movable carriage supported by wheels W'. The said rigid end is coupled to the solid part of the receptacle A by chains K, secured to the rigid end J, the opposite end of said chains at each side of the receptacle when the machine is in action being attached to the respective levers L, pivoted at M and held in the position shown by catches O, engaging with the levers L. When the press-head F is in the position shown, the apparatus is ready for receiving the material to be packed.

The top of the receptacle A is provided with a hinged cover A², and through the opening into receptacle wool or the like is passed, filling the whole of the space between the press-head F and movable rigid end J, when the opening is closed by cover A² and secured by pivoted bolts P.

The circular nut D may be rotated in any convenient manner, such as by an electric motor R and rope connection R', passing over pulleys S and S', the latter being secured to the said circular nut, which on rotating in one direction causes the screw E and press-head F to advance and compress the wool or the like into the cage-like section of the receptacle covered by the bag. While the material is under pressure narrow rods Q are placed through links of the side chains K, the rods passing through the spaces H' at the end of press-head F and engaged with the chain-links K on the opposite side of apparatus, thus holding the wool or other material under pressure within cage-like portion of receptacle and bag B² in a manner that the side chains K may be liberated by the levers L and the carriage of the rigid end J, supporting the packed bag B², drawn away from the longitudinal bars B of receptacle, leaving the open end of bag exposed to be covered by bagging sewed or otherwise secured to the packed bag B². The rods Q may then be withdrawn from the chain-links K, leaving the compressed wool or other material within the bag. The press-head F may be drawn back to its original position on reversing the direc-

tion of rotation of circular nut D by reversing the action of the electric motor T or other suitable and well-known means in use for operating the nuts of press-screws.

5 What I claim as my invention is—

A receptacle A provided with longitudinal spaced bars B and a press-head F with means of operating same, combined with a movable rigid end J, chains K, with means for secur-

ing same, and rods Q passed through the chain- 10 links, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two witnesses.

ALFRED HOLDEN ILLINGWORTH.

Witnesses:

JNO. GILL,

JOSEPH P. KIRBY.