

No. 709,905.

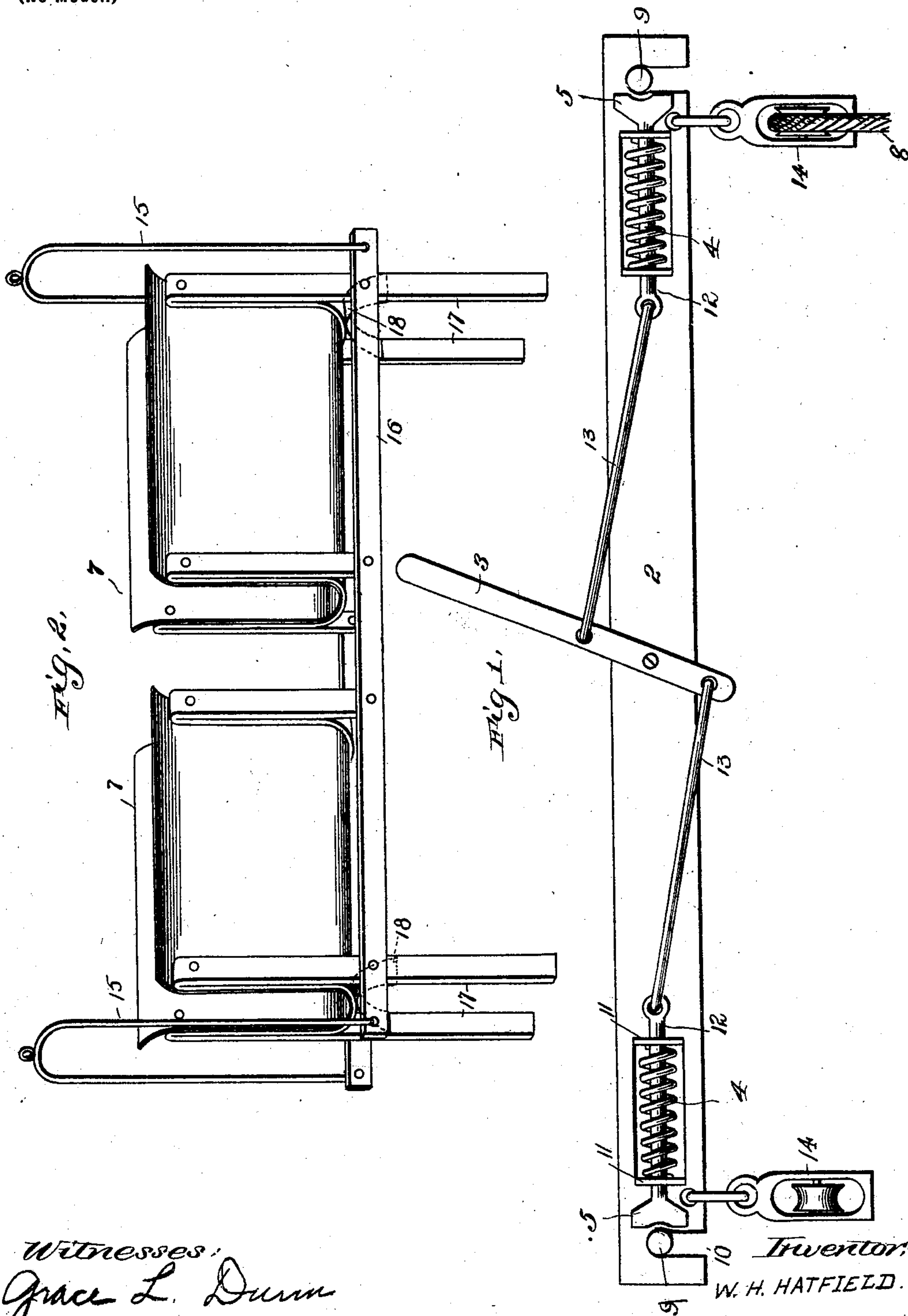
Patented Sept. 30, 1902.

W. H. HATFIELD.
HOISTING AND TRANSPORTING DEVICE.

(Application filed Oct. 30, 1901.)

(No Model.)

2 Sheets—Sheet 1.



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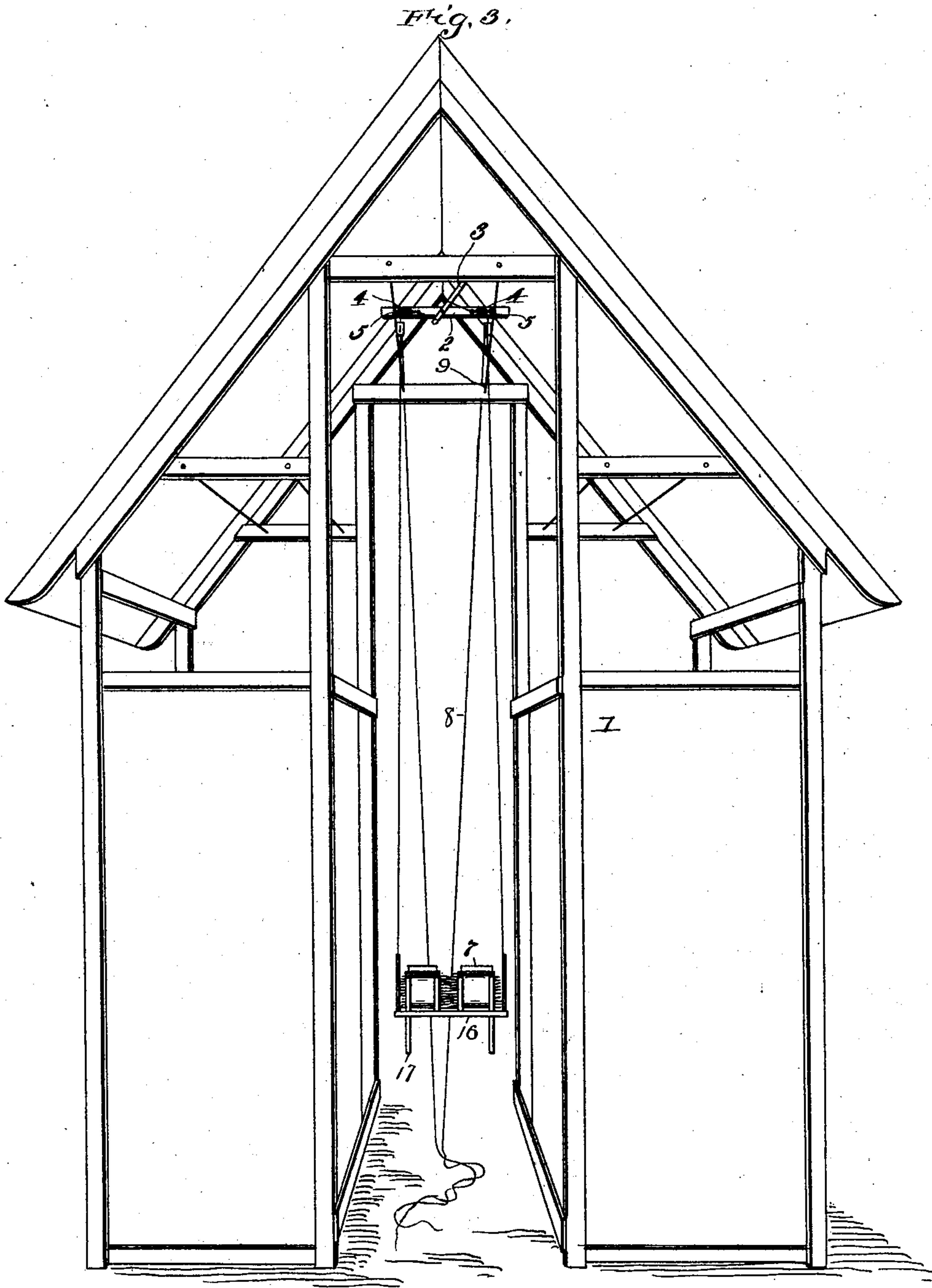
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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

WILLIAM H. HATFIELD, OF WADE, ILLINOIS.

HOISTING AND TRANSPORTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 709,905, dated September 30, 1902.

Application filed October 30, 1901. Serial No. 80,572. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. HATFIELD, a citizen of the United States, residing at the town of Wade, in the county of Jasper and State of Illinois, have invented a new and useful Broom-Corn Elevator, of which the following is a specification.

My invention relates to new and useful hoisting and transporting devices especially adapted for hoisting broom-corn to shelves in a suitable shed, where it may be cured or dried prior to being baled. Its object is to provide a simple and inexpensive device of this character which affords a convenient and cheap means for shelving the corn at a high altitude within the shed.

A further object is to employ means for locking the device in position within the shed.

With the above and other objects in view the invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a perspective view showing the apparatus in position within a shed. Fig. 2 is a detail view of the carriage, and Fig. 3 is a front elevation of the cross-beam and its locking mechanism detached.

Referring to the figures by numerals of reference, 1 is a shed of suitable construction, having rods or heavy wires 9 arranged parallel within the center thereof at the top. The rods are adapted to extend from end to end of the shed, and they extend into slots 10, formed in the lower edge of a cross-beam 2 at the ends thereof. A pair of brackets 11 is located adjacent to each slot 10, and between the members of each pair is slidably mounted a stem 12 of a block 5, which is held normally in contact with the wire by means of a coiled spring 4. A lever 3 is fulcrumed at the center of the cross-beam 2 and is connected at opposite sides of its fulcrum to the ends of the stems 12 by means of links 13. It will be seen that by means of this lever the blocks 5 can be retracted from the wires simultaneously, and the cross-beam 2 is then free to be moved upon the wires 9 to a desired position. When, however, the lever is released, the blocks will automatically and simultaneously

clamp upon the wires and lock the beam in position. A pulley 14 is suspended from each end of beam 2, and a rope or cable 8 is mounted on each of them. One end of each cable is secured to a bail 15. These bails are arranged at opposite ends of a frame 16, having suitable legs 17, and U-shaped holders 7 are mounted on the frame, a space being formed between their adjacent ends. Braces 18 connect the legs and the bottoms of the holders.

When it is desired to shelve the broom-corn, it is placed in the holders 7 and hoisted to a desired level by means of cables 8. As an open space is formed between the two holders, the corn can be readily grasped at the center and lifted from the holders. When a sufficient amount of corn has been deposited at one point upon the shelves within the shed, the lever 3 may be swung upon its fulcrum to withdraw the clamping-blocks 5, and the entire elevator can then be moved upon the wires 9 to a desired point, where the hoisting can be repeated.

In the foregoing description I have shown the preferred form of my invention; but I do not wish to limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus fully described my invention, what I therefore claim as new, and desire to secure by Letters Patent, is—

1. In hoisting and transporting devices of the character described a carriage comprising a frame, legs thereto, and alining holders thereon having a space formed between their adjacent ends.

2. In hoisting and transporting devices of the character described, the combination with a frame having legs thereto; of supporting bails at the ends of the frame, and U-shaped holders arranged in alinement upon the frame, a space being formed between their adjacent ends.

3. In hoisting and transporting devices of the character described the combination with supporting-rods; of a cross-beam having slots for the reception of the rods, clamping-blocks upon the beam normally engaging the rods,

means for retracting the blocks, and a carriage suspended from the beam.

4. The combination with a carriage comprising a frame, holders thereon and bails extending from the frame; of a cross-beam having slots therein, blocks adapted to project over the slots, a spring-controlled stem to each block, a lever pivoted to the beam, and links connecting the lever and stems, where-
10 by the blocks may be simultaneously retract-

ed, pulleys suspended from the beams, and a cable mounted on each pulley and connected to a bail.

In testimony whereof I have signed my name to this specification in the presence of 15 two subscribing witnesses.

WM. H. HATFIELD.

Witnesses:

CHARLES A. DAVIDSON,
ORAN ALLEN.