

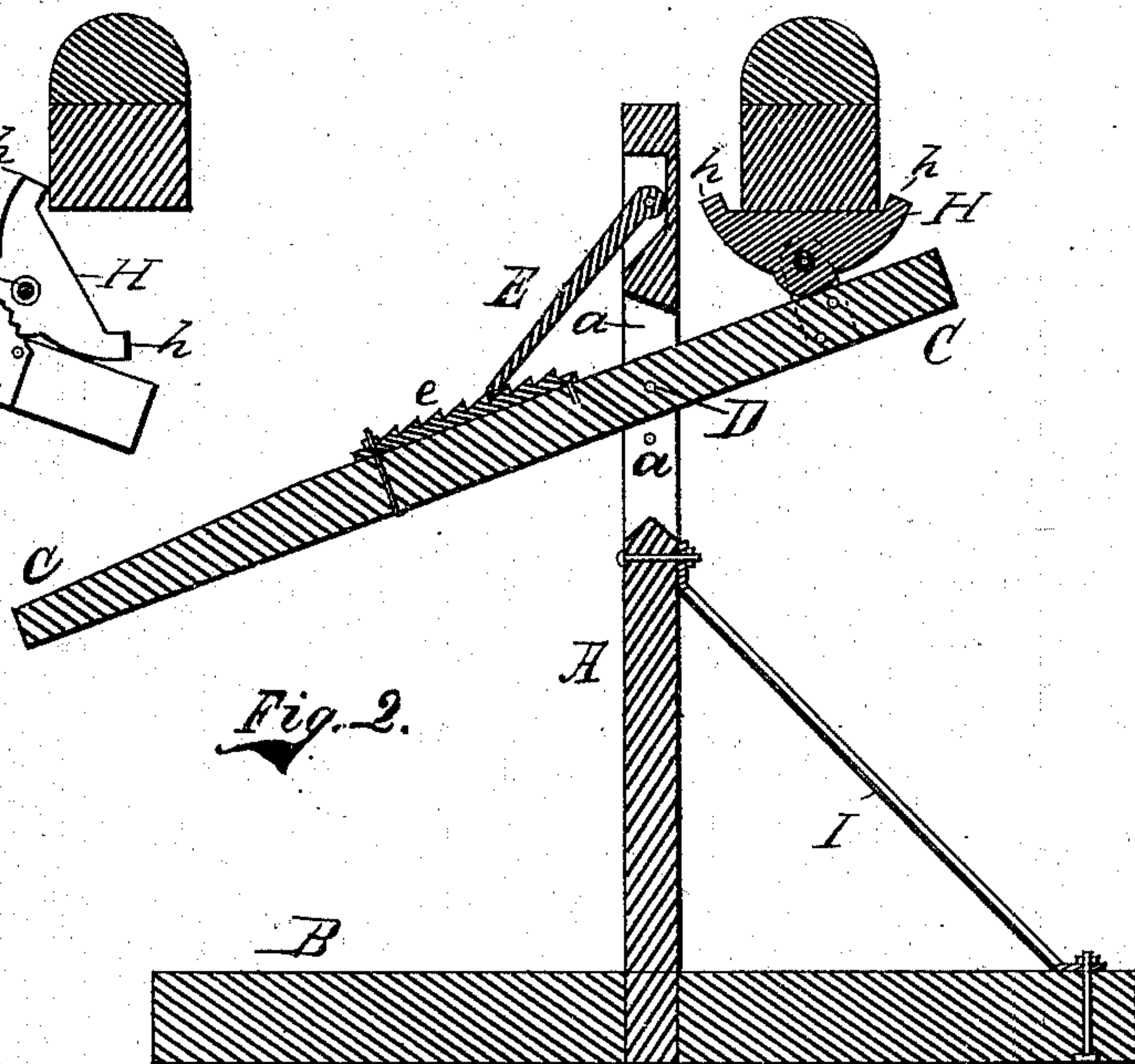
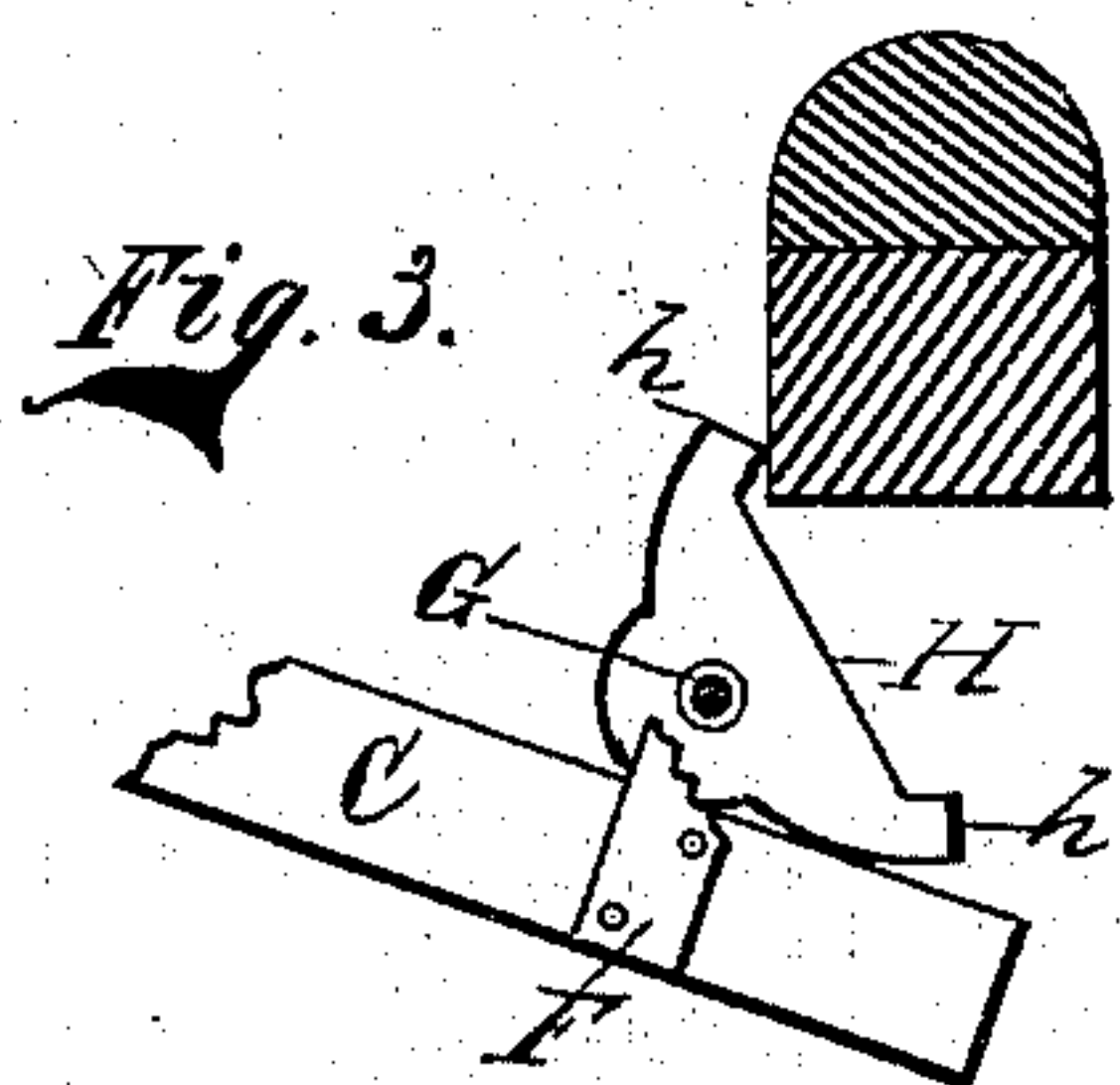
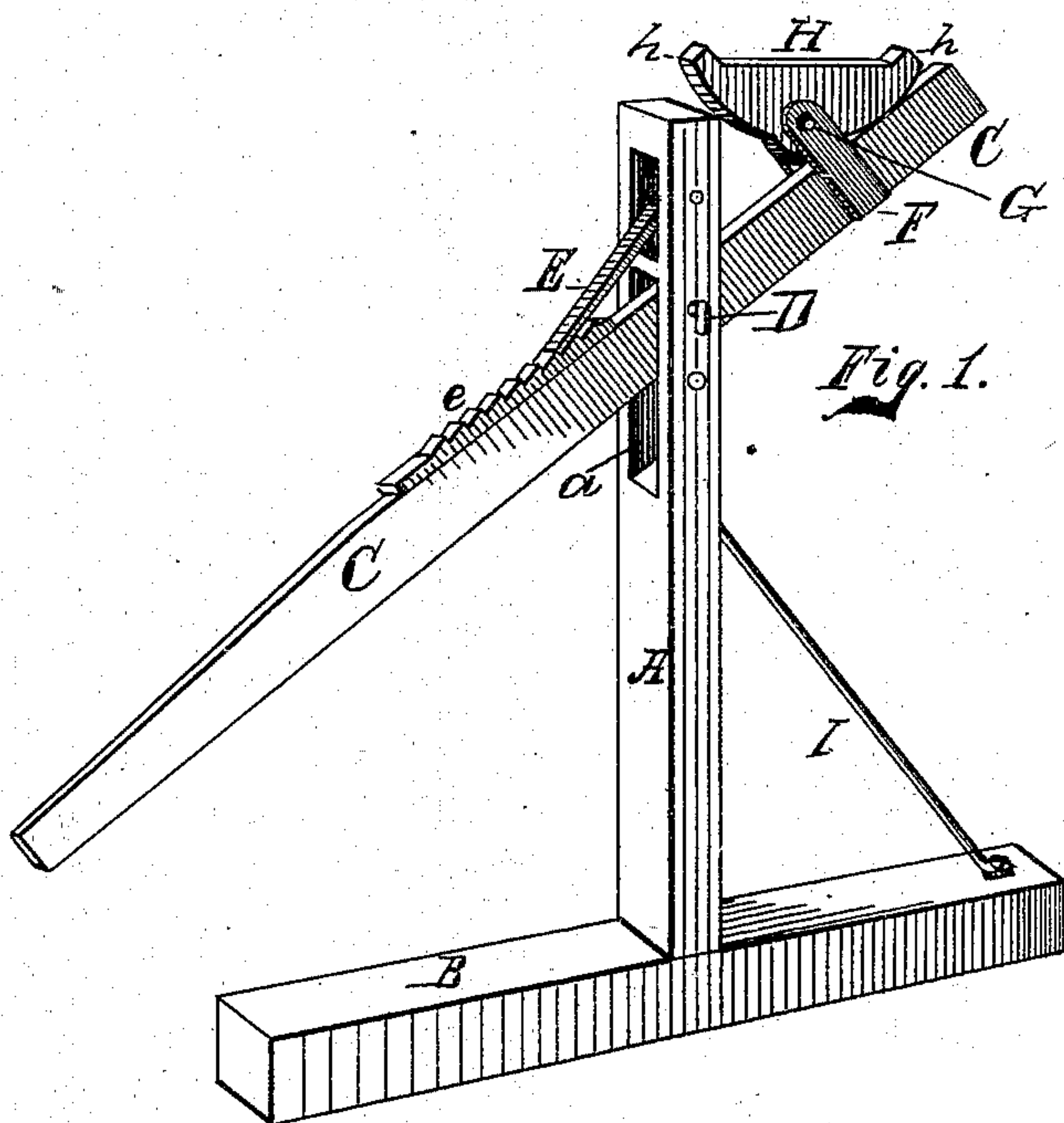
(No Model.)

C. C. FARMER.

WAGON JACK.

No. 249,463.

Patented Nov. 15, 1881.



Witnesses:

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# UNITED STATES PATENT OFFICE.

CHARLES C. FARMER, OF ISLAND POND, VERMONT.

## WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 249,463, dated November 15, 1881.

Application filed August 24, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES CURTIS FARMER, a citizen of the United States of America, residing at Island Pond, in the county of Essex and State of Vermont, have invented certain new and useful Improvements in Wagon-Jacks; and I do hereby 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 letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to wagon-jacks of that class having a lifting-lever pivoted in a vertical slotted standard having a pawl engaging with a rack on the lifting-lever.

The purpose of my invention is, besides cheapness and simplicity in construction and directness of action, to provide the lifting-lever with a block the upper surface of which will, when in use, preserve a horizontal position, whatever the inclination of the lifting-lever; secondly, to transfer the strain caused by the weight to be lifted from the pivotal bearings of said block to the lifting-lever; and, thirdly, to provide for the retention of the axle in the pivoted block when the jack is in use.

To these ends my invention consists of the parts substantially as hereinafter described, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective view of my improved jack. Fig. 2 is a longitudinal vertical section thereof, and Fig. 3 is a detail showing the relation of parts when the jack is about to be placed under an axle to lift the same.

Corresponding parts in the several figures are indicated by similar letters of reference.

In the annexed drawings, A marks an upright or standard firmly secured to the base B, and provided with a vertical slot, *a*, in its upper portion to receive the lever C fulcrumed therein by means of the removable pin D. The standard is provided with a series of holes for the insertion of the pin D, so as to permit vertical adjustment of the lifting-lever C. Further, it is beveled in opposite directions from the central part of that portion at the ends of

the slot, as shown, to enable the lever to have considerable play, while preventing weakness in the standard from an otherwise extension of the slot.

Pivoted in a recess in the upper part of the standard A is a pawl, E, engaging with a rack, *e*, fastened to the upper surface of the longer arm of the lever C to hold the latter in any desired position when in use. Firmly secured to the end of the smaller arm of the lever C, on opposite sides thereof, is a pair of ears, F, between which is pivoted a block, H, by means of a bolt, G. The eye in the block H receiving the bolt G is of a diameter greater than said bolt for the purpose of securing a slight play of said block, whereby the lower curved portion or segmental extension of the block will, when the jack is in use, rest on the lever C, by which the strain from the weight to be lifted will not be exerted on the pivoted bearings of the said block, but be transferred to the lifting-lever. This construction insures the effective and free operation of the parts, and, further, by providing the segmental extension, as shown, the ends of the block will rest on the lever C, whereby they will be relieved of strain when in some positions of the lever the strain is exerted at such points. The upper surface of the block is provided with a recess to receive and hold the ordinary-sized axle between its shoulders *h*. These shoulders, besides holding the axle to the block, serve to catch on one of the lower edges of the axle, as shown in Fig. 3, so that upon pressing down upon the longer arm of the lever and pushing the jack forward the block will be caused to fit the bottom of the axle, when the latter can be raised to lift a wheel from the ground. A brace, I, is secured to the forward part of the base B and the standard A to lend additional strength to the parts.

My device is simple in construction, direct in action, cheap, and effective.

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

1. In a wagon-jack, a lifting-lever provided at one end with the ears, as shown, and the pivoted oscillating bearing-block, said block having its bolt-receiving eye of greater diam-

eter than the bolt G, whereby, when the jack is in use, the bearing-block will rest on the lifting-lever to relieve the pivotal bearings of strain, substantially as described and shown.

- 5 2. A wagon-jack having the vertically-adjustable lifting-lever provided with the rack, and the pivoted block having the segmental extension, whose bolt-receiving opening is of greater diameter than the bolt, and provided  
10 on its upper surface with the recess to form shoulders *h* to receive and hold the axle to be

lifted, and the retaining-pawl pivoted in the standard so as to engage with the rack, all as shown and described, and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses. 15

CHARLES CURTIS FARMER.

Witnesses:

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