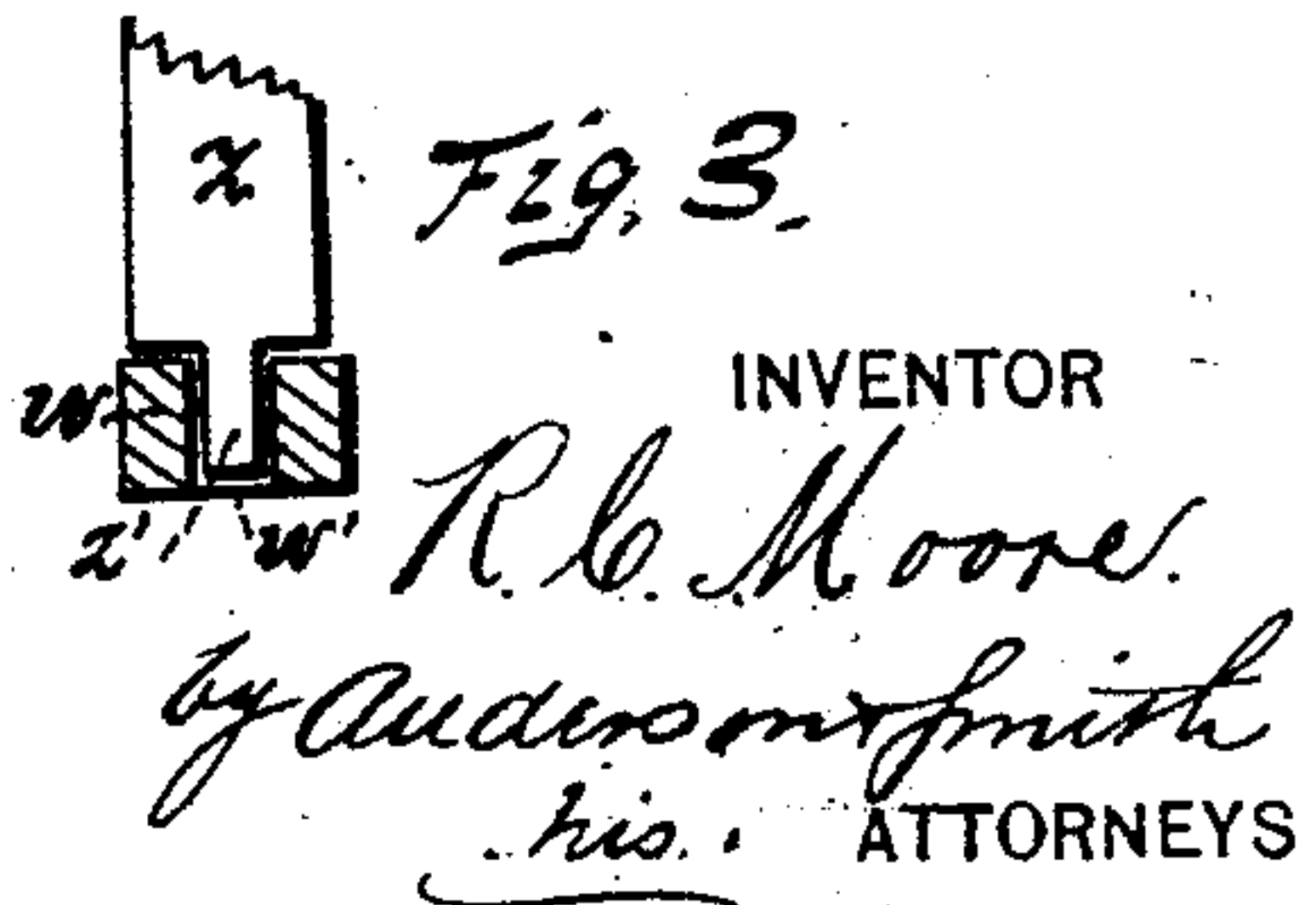
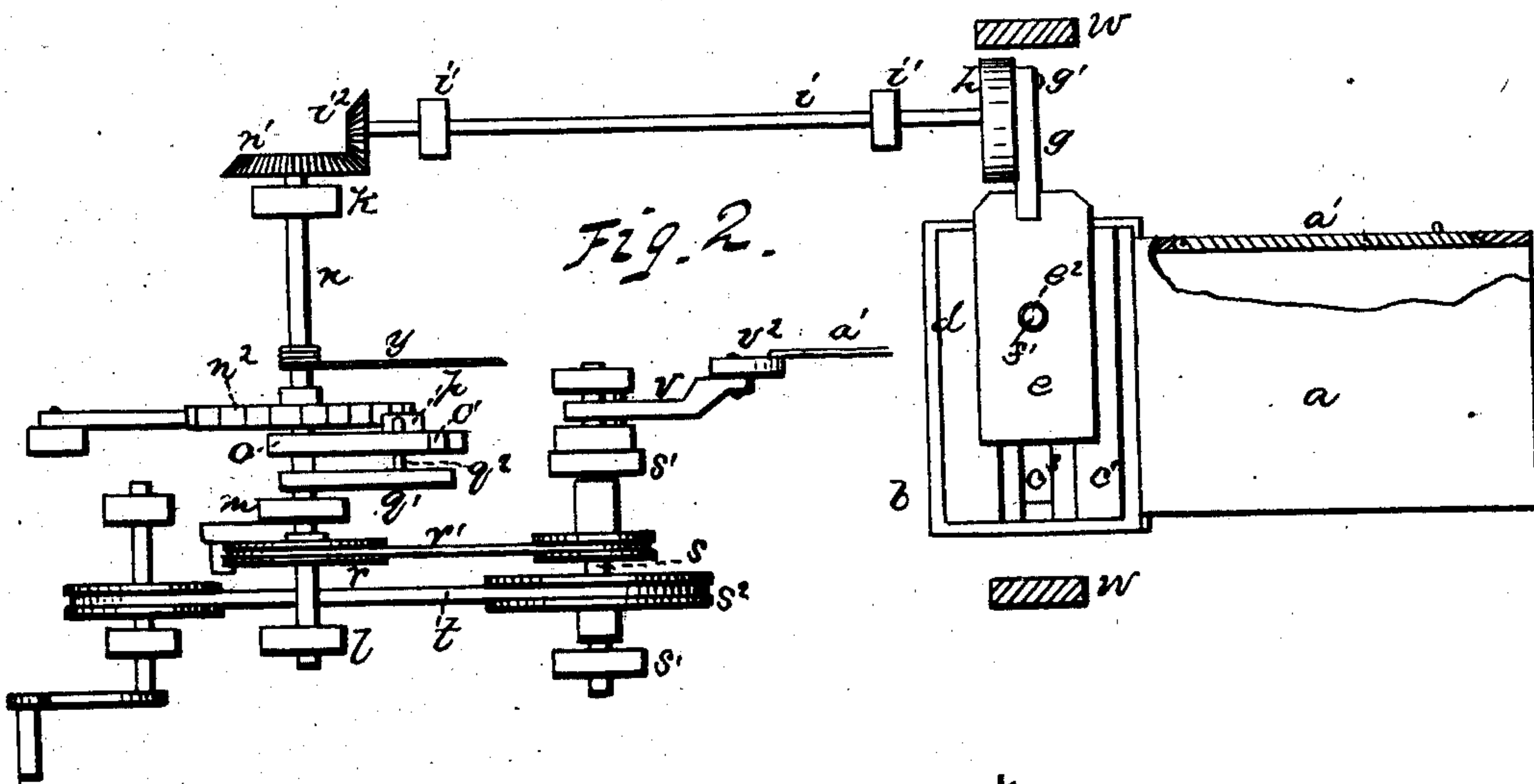
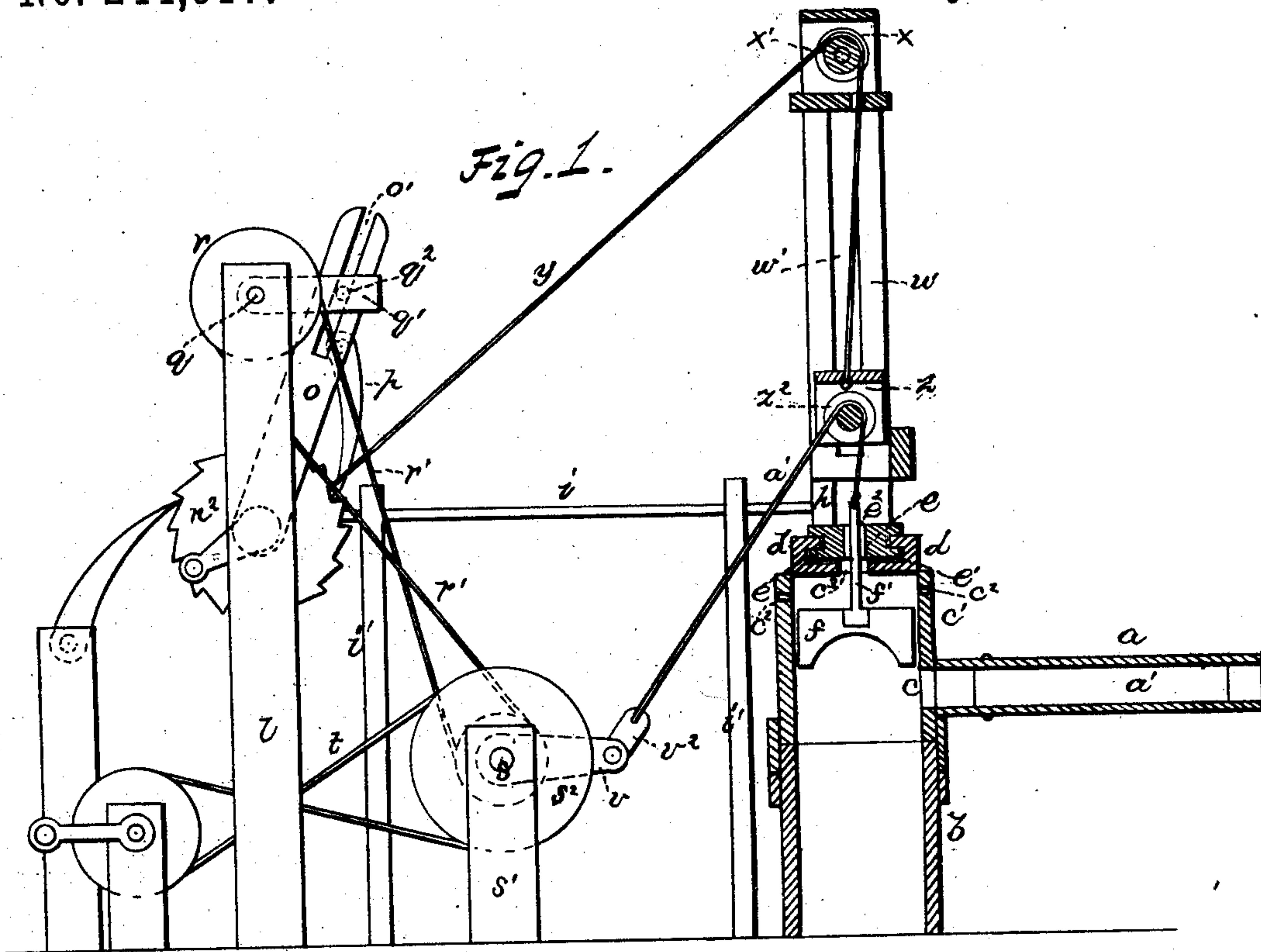


(No Model.)

R. C. MOORE.
COTTON PACKER.

No. 244,917.

Patented July 26, 1881.



WITNESSES
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RALLEIGH C. MOORE, OF MCKINNEY, ASSIGNOR OF ONE-HALF TO JAMES L. GREER, OF VAN ALSTYNE, TEXAS.

COTTON-PACKER.

SPECIFICATION forming part of Letters Patent No. 244,917, dated July 26, 1881.

Application filed May 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, RALLEIGH C. MOORE, a citizen of the United States, resident of McKinney, in the county of Collin and State of Texas, have invented a new and valuable Improvement in Cotton-Packers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical section of my cotton-packer. Fig. 2 is a plan view of the same. Fig. 3 is a detail view.

This invention has relation to devices for packing cotton; and it consists in the construction and novel arrangement of parts hereinafter shown and described, and specifically pointed out in the appended claims.

The object of the invention is, mainly, to provide means for taking the cotton from the gin and packing the same in the bale-box, ready for the action of the press-follower, without manual labor.

In the annexed drawings the letter *a* represents a flue leading from the gin and secured to the bale-box *b* at the opening *c* in the latter. This flue is provided with a valve, *a'*, which can be opened to allow the cotton to escape when a bale is being pressed and it is not desired to stop the gin. The bale-box *b* is provided with a removable cover, *c'*, in which is arranged the flue-opening *c*, and apertures *c''* are provided therein to permit air to escape. In the top of this upper section or cover, *c'*, is made a slot, *c''*, and on each side thereof is provided a flanged guideway or bearing, *d*, to receive the engaging edges *e'* of a slide-bar, *e*, which is provided with an aperture, *e''*, in its middle portion. Through the aperture *e''* passes the stem *f'* of the packing-block *f*, which is usually made in wedge form and is located in the box *b*. The stem *f'* of the packing-block (which may be of wood or rope) passes loosely through the aperture *e''* and is susceptible of a vertical reciprocating movement. The slide-bar *e* is provided at one end with a connecting-

rod, *g*, which engages a wrist-pin, *g'*, on the disk *h*, the latter being keyed on a shaft, *i*, turning in bearings *i'* *i''* on the frame, and having at its other end a bevel-wheel, *i''*. This shaft *i* is usually arranged at right angles with the box *b*, and somewhat in rear of said box are located the bearings *k*, *l*, and *m*, parallel thereto.

Seated in the bearings *k* and *l* is a shaft, *n*, having a bevel-wheel, *n'*, which engages with the wheel *i''*, and also provided with a toothed wheel, *n''*.

Sleeved on the shaft *n*, between the wheel *n''* and the bearing *l*, is an arm, *o*, which, projecting upward, is formed with a slot, *o'*, in its upper portion, and is provided with a pawl, *p*, which is pivoted thereto over the wheel *n''*, and is designed to turn this wheel by a slow movement toward the box *b*.

In seats arranged in the upper parts of the bearings or supports *l* and *m*, above the shaft *n*, is located another shaft, *q*, having at one end the crank-arm *q'*, provided with the adjustable pin *q''*, which is designed to engage in the slot *o'* of the arm *o*, and to impart to the latter, as the shaft *q* is turned, a vibratory motion.

Keyed to the shaft *q*, between bearings *l* and *m*, is a wheel, *r*, from which runs a belt, *r'*, to a counter-shaft, *s*, hung in suitable bearings, *s'* *s''*, and receiving motion from the driving-shaft *n*, through the pulley *s''* and the belt *t*. At its inner end the shaft *s* is provided with a crank-arm, *v*, having a block, *v''*.

Located above the box *b* is a frame supporting parallel vertical bars *w*, having guide-slots or bearings *w'*. Seated between these bars, where they project above the top of the frame, is a block, *x*, which rests on said top and carries a roller, *x'*, arranged transversely, as shown in the drawings.

Secured to the shaft *n* is a rope or chain, *y*, which passes over the roller *x'* and down through an aperture in the top of the frame. To the lower end of this rope or chain is fastened a carrier, *z*, the ends *z'* of which project through the guide-slots *w'*. This carrier is provided with a roller or pulley, *z''*, over which passes the rope or chain *y'*, which is connected

by one end to the stem of the packing-block *f*, and by the other to the pivoted block or arm *v*² of the crank *v*.

The operation of this machine is as follows:

5 As the cotton passes through the flue *a* into the bale-box *b* the machine is set in motion by power applied to the shaft *n*. The crank-arm *v* is designed to give a vertical reciprocating motion to the packer *f*, through the medium
10 of the rope *a'*. At the same time a horizontal reciprocating motion is given to the slide-bar, through which the stem of the packer passes, so that the latter is caused to act at successive points in the box. It is also designed that the
15 rope *y*, winding around the shaft *n*, shall take up the slack of rope *a'*, the pawl *p* preventing any back-action of the shaft as the pawl *p* moves back for another stroke. When the box is filled with cotton it will be found well packed
20 and ready for pressing, which is accomplished in the usual manner.

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

25 1. In a cotton-packing machine, the combina-

tion, with a vertically-reciprocating packing-block, of a horizontally-reciprocating slide-bar, through which the stem of said block passes, and operating devices, as shown and described, substantially as specified.

2. The combination, with a cotton-box, the packer-block working therein, and its governing slide-bar, of the cover *c'*, the guides *w*, the roller-block *x*, the carrier *z*, and the ropes *a'* and *y*, and their operating devices, substan-
35 tially as specified.

3. The combination, with the packer-block in the bale-box and its stem, of the rope or chain connected thereto, its operating devices, the governing slide-bar, and the operating
40 shafting and gearing therefor, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

RALLEIGH CABERT MOORE.

Witnesses:

J. L. GREER,

A. SIMS.