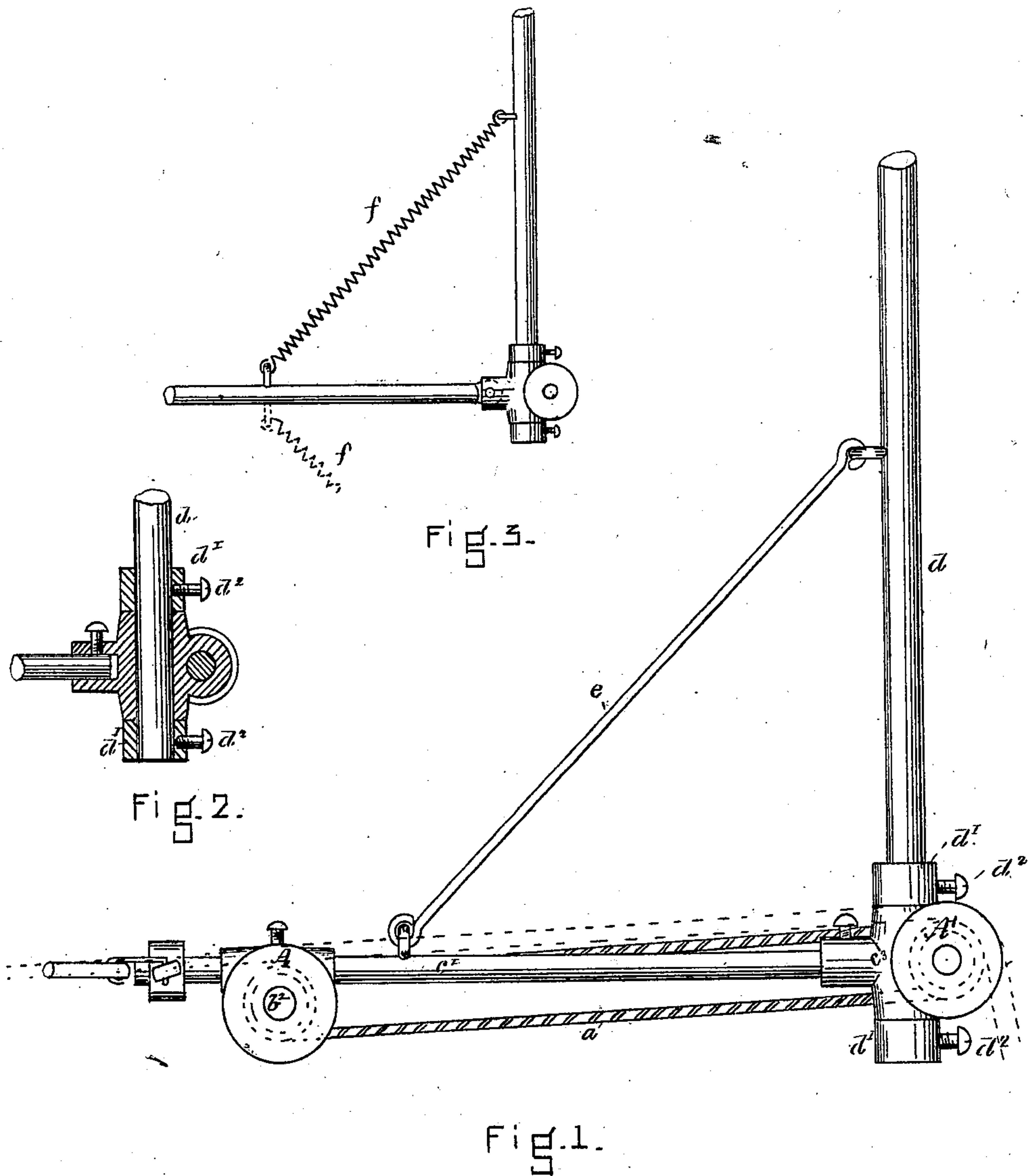


J. H. BRACKETT.  
Feeding Device for Carding-Machines.

No. 227,672.

Patented May 18, 1880.



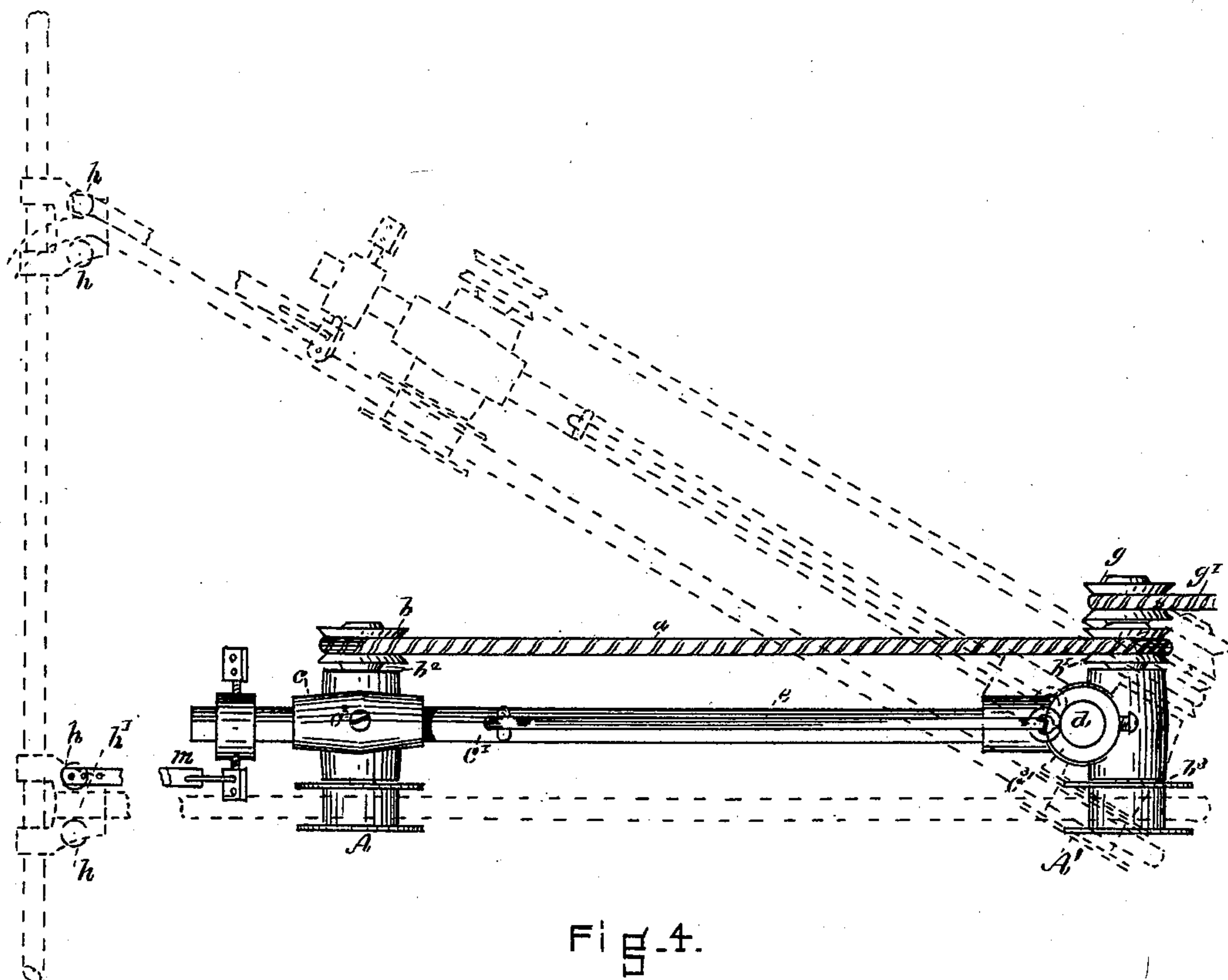
WITNESSES  
George F. Walker.  
M. W. Sawyer.

INVENTOR  
John H. Brackett  
by his attys  
Clarke & Raymond.

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*George F. Walker*  
*M. H. Sawyer*

INVENTOR

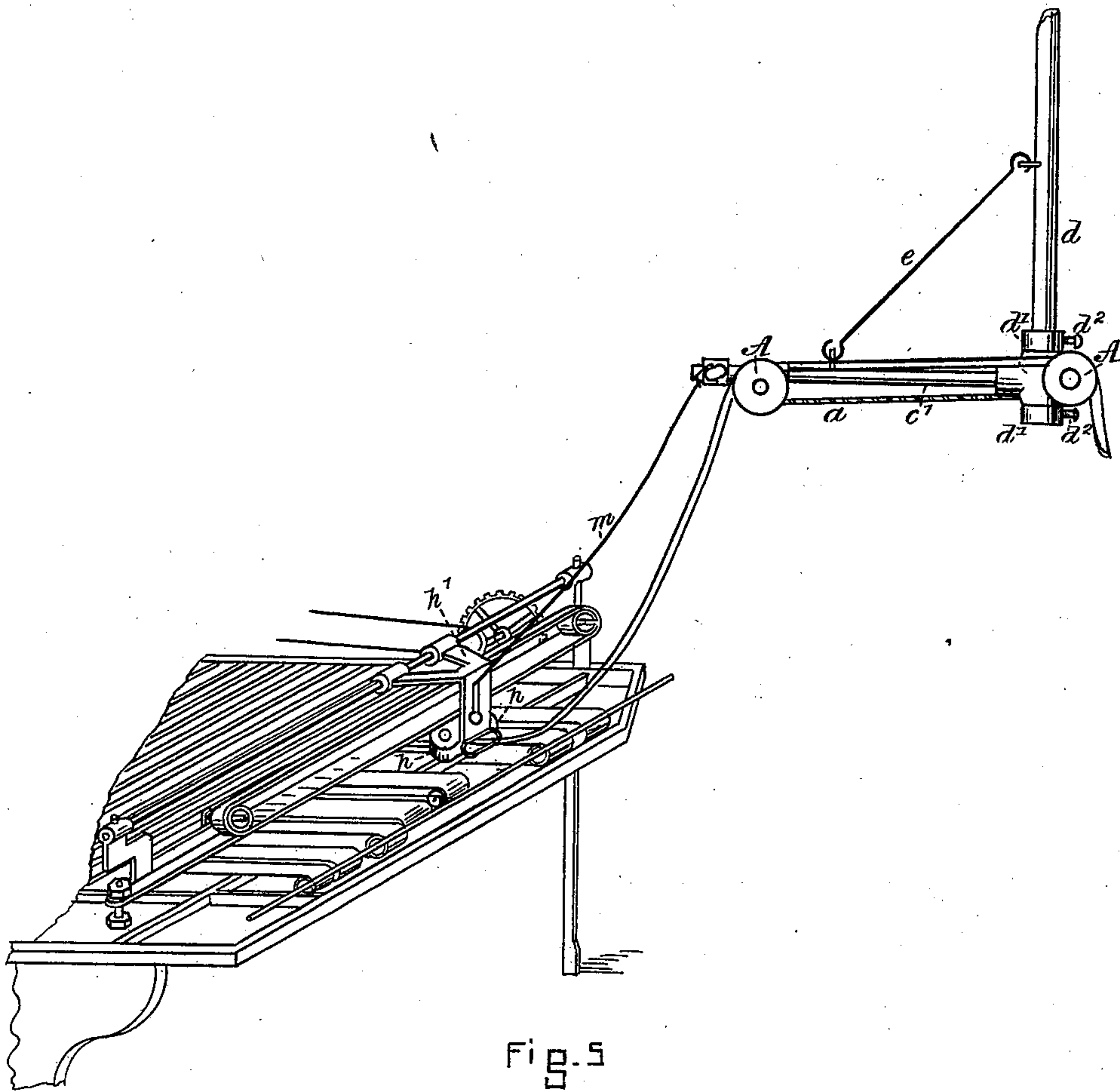
*John H. Brackett*  
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J. H. BRACKETT.

### Feeding Device for Carding-Machines.

**No. 227,672.**

**Patented May 18, 1880.**



WITNESSES

George F. Walker  
A. J. Pettinger

INVENTOR

INVENTOR  
John H. Brackett  
by his attys  
Clarke & Raymond-



# UNITED STATES PATENT OFFICE.

JOHN H. BRACKETT, OF DOVER, NEW HAMPSHIRE.

## FEEDING DEVICE FOR CARDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 227,672, dated May 18, 1880.

Application filed August 22, 1879.

*To all whom it may concern:*

Be it known that I, JOHN H. BRACKETT, of Dover, in the county of Strafford, in the State of New Hampshire, have invented an Improvement in Feeding Devices for Carding-Machines, of which the following is a specification.

This invention relates to an improvement in mechanism for feeding finishing-cards.

In the drawings, Figure 1 represents a side elevation of my improvement; Fig. 2, a cross-section representing a detail in construction. Fig. 3 represents a modification in construction. Fig. 4 represents a view in which two positions of my device are shown. The one in full outline represents it in the position commonly occupied by the ordinary card-feeding device, and the one in dotted outline shows its movement in one direction to coincide with the movement of the feeding-rolls of the carding-machine. Fig. 5 represents a perspective view of my feeding mechanism and a portion of the Apperly & Clissold feeding mechanism for carding-machines, showing the manner in which the sliver is fed to the feeding-rolls of the carding-machine, and the manner by which the feeding-rolls of my improvement are provided with a horizontal movement coincident with that of the feeding-rolls of the said carding-machine.

My improvement is particularly adapted for use in connection with the card-feeding mechanism described in patent to James Apperly and W. Clissold, No. 18,888, of 1857.

Although I may use any suitable supports for the drawing or sliver, I prefer to employ the feeding-rolls A A' constantly revolved by the belt *a*, which passes over the pulleys *b b'* upon the roll-carrying shafts *b<sup>2</sup> b<sup>3</sup>*. The shaft *b<sup>2</sup>* is provided with a suitable bearing in the under portion of the collar *c*, and the collar is adjustable upon the supporting-arm *c'*, and can be fastened in any desired position by the set-screw *c<sup>2</sup>*. The shaft *b<sup>3</sup>* has a bearing in a suitable projection on the collar *c<sup>3</sup>* on the vertical standard *d*. It is secured in place by the collars *d'* and set-screws *d<sup>2</sup>*. The collar *c<sup>3</sup>* also supports the horizontal arm *c'*, which is attached to it either by a sleeve and set-screw, as shown in Figs. 1 and 2, or by a hinge or loose connections, as shown in Fig. 3.

The stay-rod *e* assists in the support of the horizontal rod *c'*, and limits to a certain extent its movement.

The standard *d* may be suspended from any suitably bracket or support, or may be fastened to the floor or to a table.

When it is desirable the arm or rod *c'* may have a vertical yielding movement in addition to a horizontal swinging movement, and a ball-joint or other hinge may be employed for fastening it to the collar *c<sup>3</sup>*, in order that it may have a vertical swinging movement.

To limit the extent of this movement and to support the horizontal rod, one or more springs, *f*, may be employed in lieu of the stay-rod *e*; or the rod may be floated by two springs, one above and one below it, as shown in Fig. 3.

The rolls are driven by the pulley *g* on the shaft *b<sup>3</sup>* and the belt *g'*, which connects with a pulley on any rotating part of the carding mechanism. The rod *c'* is provided with a horizontal swinging movement coincident with that of the feeding-roll *h* on the carding-machine by any suitable mechanism, but preferably by means of the strap *m*, which connects the head *h'*, carrying the feeding-rolls, or any reciprocating part of the carding-machine, with the end of the rod *c'*.

In operation the sliver or drawing is passed over the rolls A A' to the feeding-rolls *h* of the carding-machine, and as the feeding-rolls reciprocate the sliver or drawing is fed by the feeding-rolls, which are brought in a line with the feeding-rolls in the carding-machine as they are moved therewith, and the sliver or drawing therefore passes without friction and with very little tension to the receiving-rolls *h*.

My improvement may be so supported that the rolls shall be upon the same level with the receiving-rolls of the carding-machine, or it may be on a somewhat higher level, in which case, however, there will be no difference in its action, as the sliver or drawing, passing over the rolls down to the feeding-rolls of the carding-machine, is not drawn against an angle in such a manner as to disturb the tension.

Having thus fully described my invention,

I claim and desire to secure by Letters Patent of the United States—

5 In a device for transferring sliver to the feeding-rolls of a carding-machine, the combination of the support *d*, the hinged arm *c'*, adapted to have a horizontal swinging movement imparted to it, and carrying feed-rolls A, and means attached to the support *d*, as set

forth, for supporting said arm in a horizontal position, all arranged to operate substantially as and for the purposes described. 10

JOHN H. BRACKETT.

Witnesses:

JAMES B. BARNES,  
J. H. RICHARDSON.