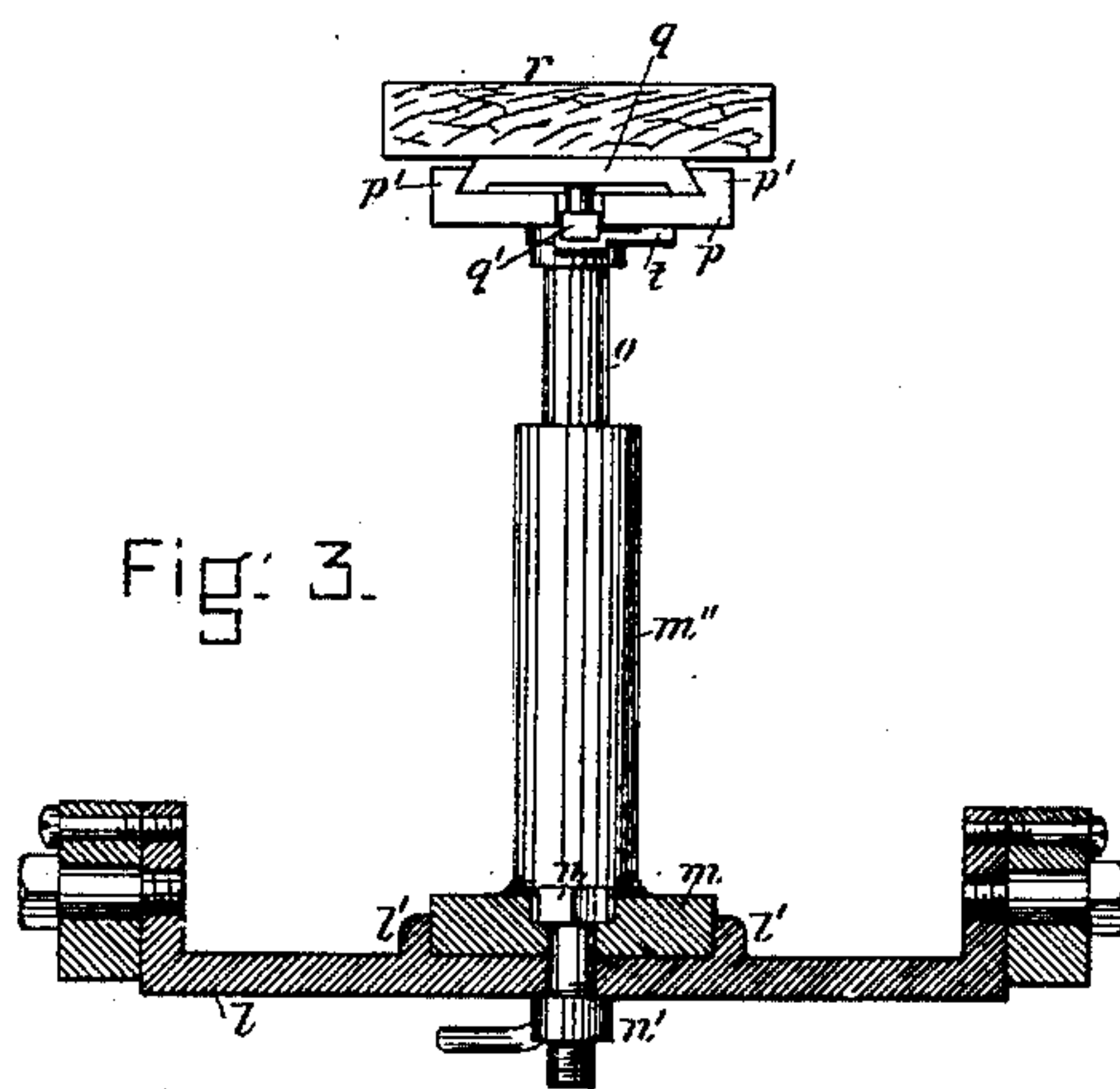
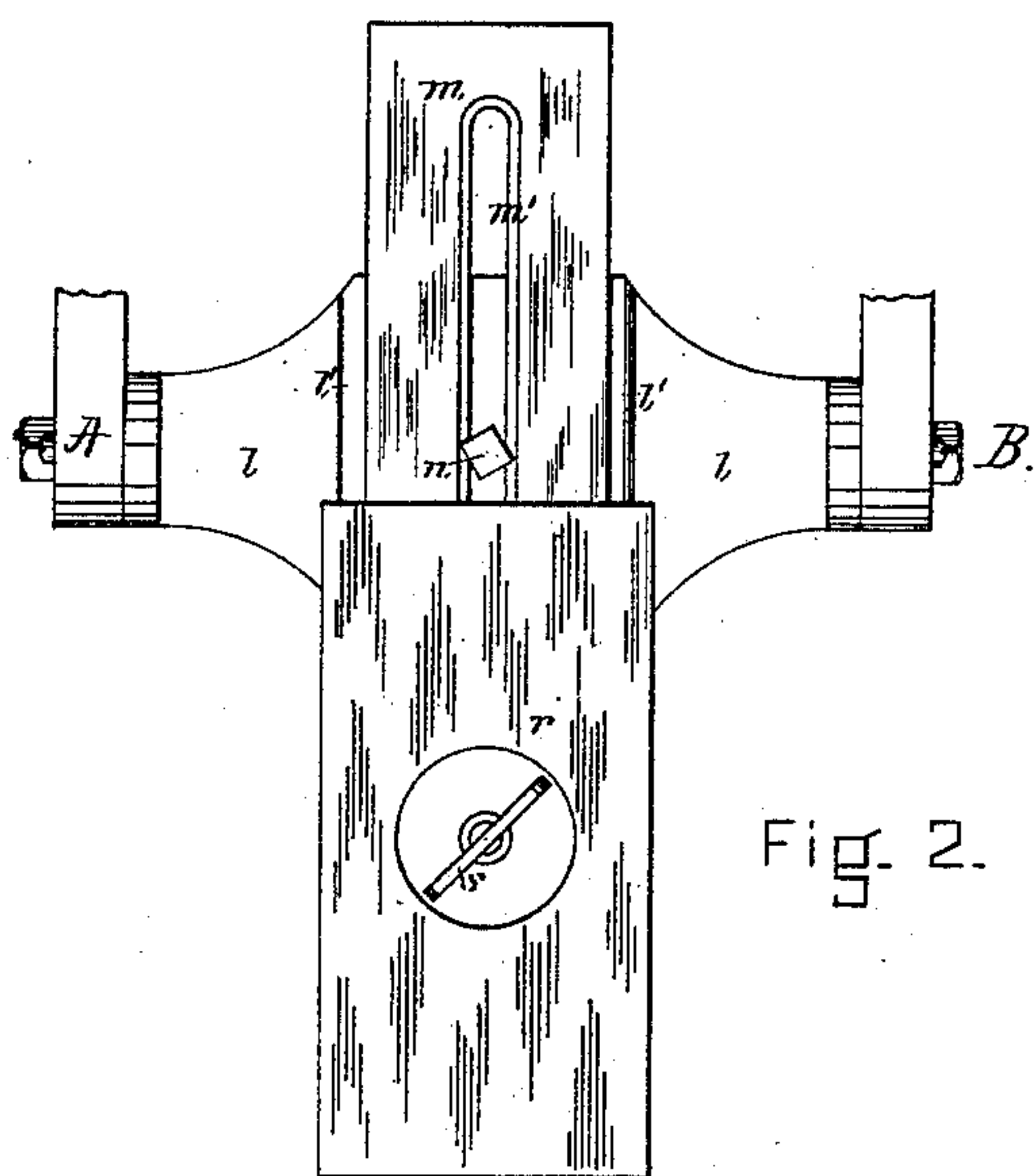
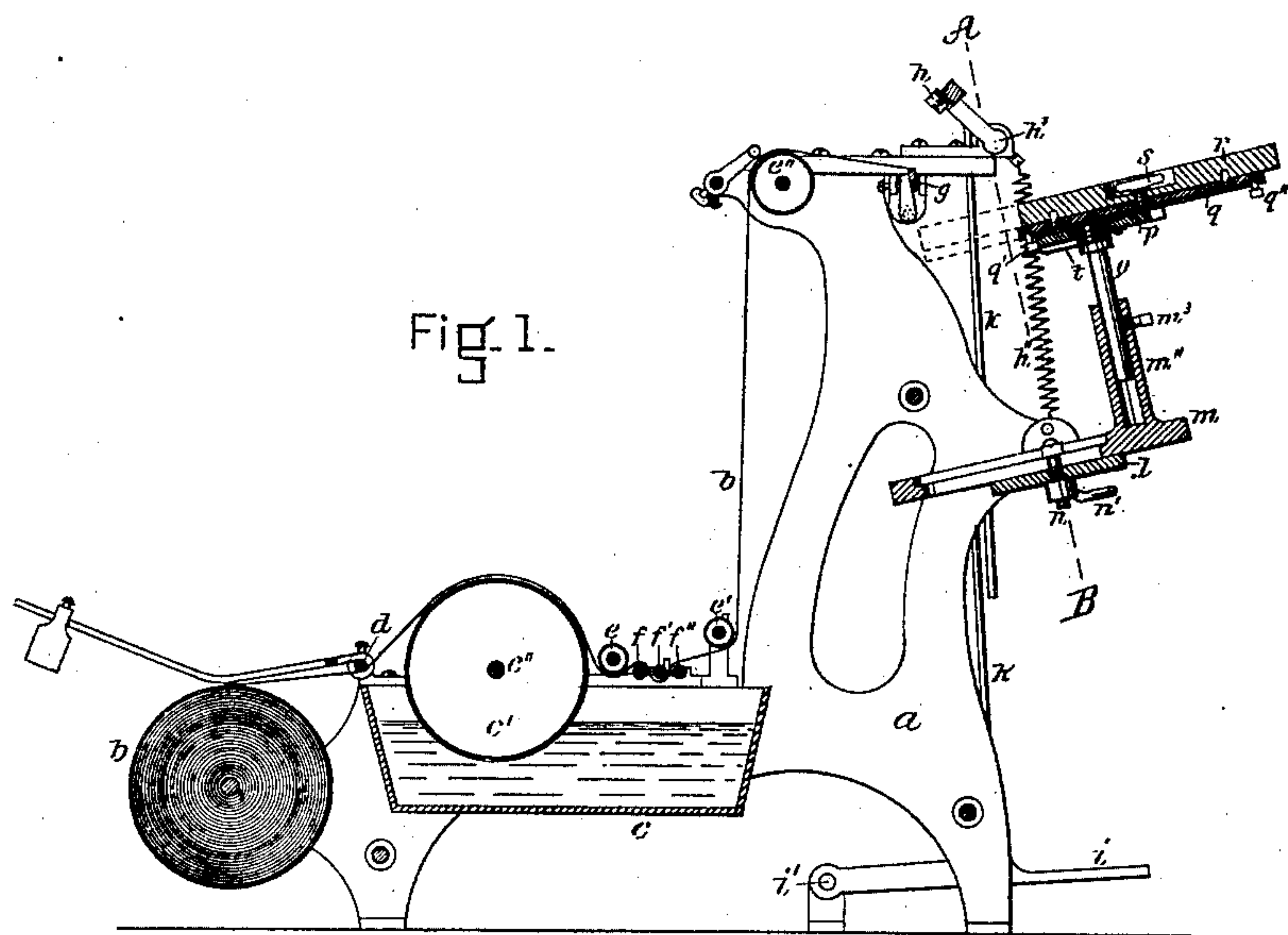


(No Model.)

G. W. GLAZIER.  
PAPER BOX COVERING MACHINE.

No. 360,583.

Patented Apr. 5, 1887.



WITNESSES.

Charles H. Figg.  
Henry Chadbourn.

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his atty.

# UNITED STATES PATENT OFFICE.

GEORGE W. GLAZIER, OF SALEM, ASSIGNOR OF FIVE-SIXTHS TO GEORGE A. CROSMAN, JOHN METCALF, AND JOHN B. ROLLINS, ALL OF LYNN, MASS.

## PAPER-BOX-COVERING MACHINE.

SPECIFICATION forming part of Letters Patent No. 360,583, dated April 5, 1887.

Application filed September 9, 1886. Serial No. 213,059. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. GLAZIER, a citizen of the United States, and a resident of Salem, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Paper-Box-Covering Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

10 This invention relates to improvements in paper-box-covering machines; and it consists particularly in improved mechanism for supporting the box or its cover while in the act of pasting the strip or label on it, as will hereinafter be more fully shown and described, reference being had to the accompanying drawings, where—

Figure 1 represents a vertical section of a paper-box-covering machine provided with my improved paper-box-supporting device. Fig. 2 represents a detail plan view of the improved box-supporting device; and Fig. 3 represents a cross-section on the line A B, shown in Figs. 1 and 2.

25 Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

*a a* represent the sides or upright frames of the machine. *b* is the paper reel, from which the paper strip *b'* is drawn.

*c* is the paste-trough, and *c'* is the paste-roller, having its axle *c''* loosely supported in bearings in the sides *a a*, as usual.

35 *d* is a guide-roller located between the reel *b* and paste-roller *c'*, as shown in Fig. 1.

*e e' e''* are guide-rollers for the paper strip, as usual.

*f f' f''* are tempering-rollers, over and under which the paper strip is drawn, as shown in Fig. 1.

40 *g* is a stationary knife secured to or near tops of frames *a a*, and *h* is the movable knife for cutting off the pasted paper strip the desired length while in the act of securing it to the bottom of the box or the top of its cover.

45 The movable knife *h* is pivoted at *h'* in bearings in frames *a a* and automatically swung out of operative position by the influence of the spring *h''*, as shown in Fig. 1. The knife *h* is caused to pass by the stationary knife *g*

when the paper strip is to be cut by the operator depressing the treadle *i*, that is pivoted at *i'*, and connected to the movable knife *h* by means of the rod or rods *k*, as shown.

I wish to state that the mechanism as above described forms no part of my present invention, which latter consists, essentially, of a new and useful box-supporting device for paper-box-covering machines of this kind.

The box-supporting device is carried out as follows: To the forward ends of the frames *a a* is firmly secured the bed *l*, on which is adjustably secured the plate *m*, the latter having a slotted perforation, *m'*, through which the fastening-bolt *n* is passed, said bolt projecting through a perforation in the bed *l*, and provided on its under side with a suitable nut, *n'*, or equivalent device for securing the plate *m* in an adjustable manner to the bed *l*, according to the size of the boxes to be covered. *l'* 70 *l'* are ribs on the upper side of the stationary bed *l*, between which the plate *m* is guided while being adjusted. *m''* is a hollow post secured to or cast in one piece with the plate *m*, and in said hollow post is adjustable up and down the spindle *o*, which, after being adjusted, is secured to the post *m''* by means of a suitable set-screw, *m'''*, as shown.

To the upper end of spindle *o* is secured the plate *p*, having lips *p' p'*, between which the block-carrier *q* is guided as it is moved to and from the cutting device.

*q' q''* are stop projections secured to the block-carrier *q*, to limit its forward and back motion on top of plate *p*.

To the top of carrier *q* is secured, in a suitable manner, the box-block *r*, preferably made of wood and of a size corresponding to the box that is to be covered. I prefer to secure the block *r* to the carrier *q* by means of the thumb-screw *s*, passing through a perforation in block *r*, and screwed into a screw-threaded perforation in carrier *q*, as shown; but this is not essential, as any other suitable fastening device may be employed to equal advantage.

95 *t* is a spring secured to the plate *p*, its free end being arranged so as to bear on the stop projection *q'* when the block and carrier are moved toward the operator at the limit of the stroke of said carrier, as shown in Fig. 1, so as



to hold the said block and carrier in position while the strip is being pasted on, the box removed, and another one replaced on the block.

The object of sliding the block *r* to and from the cutting device is to permit the paper strip to be cut off the proper length necessary to cover the bottom of the box, while one end (the forward one) of the pasted strip of paper is being pasted on, after which the block and carrier are drawn toward the operator far enough to permit the removal of the pasted box from the block *r*, and putting another one on it without interfering with the movable knife *h*.

The operation is as follows: The block *r* and carrier *q* are drawn toward the operator as far as the stop projection *q'* will permit, and the box to be covered is placed in an inverted position on the block. The box, block, and carrier are then moved toward the cutting device until stopped by the projection *q''*, the operator having meanwhile taken hold of the end of the pasted strip of paper and laid it on the forward end of the box. The strip is then cut off the proper length by means of the movable knife *h* and stationary knife *g*, and after the paper strip has been cut the box, block, and carrier are drawn toward the operator to the position shown in Fig. 1, and the paper smoothed down upon the box, as is usual in machines of this kind. The finished box is then removed from the block and another one put in its place, and so on.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim— 35

1. In a paper-box-covering machine, the sliding block *r*, in combination with the stationary knife *g* and movable knife *h*, as and for the purpose set forth.

2. In a paper-box-covering machine, the stationary plate *p*, the sliding carrier *q*, and block *r*, combined with the stops *q'* *q''* and the cutting-off mechanism, substantially as and for the purpose set forth. 40

3. In a paper-box-covering machine, the stationary bed-plate *l* and the plate *m*, adjustable thereon, the said plate having hollow post *m''* for the reception of the spindle *o*, the latter being made adjustable in said post *m''*, and having secured to its upper end the plate *p*, the carrier *q*, capable of a sliding motion upon plate *p*, and carrying the block *r*, all combined and arranged substantially as and for the purpose set forth. 45 50

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 3d day of September, A. D. 1886. 55

GEORGE W. GLAZIER.

Witnesses:

ALBAN ANDRÉN,  
HENRY CHADBURN.