

925,298.

Fig. 1.

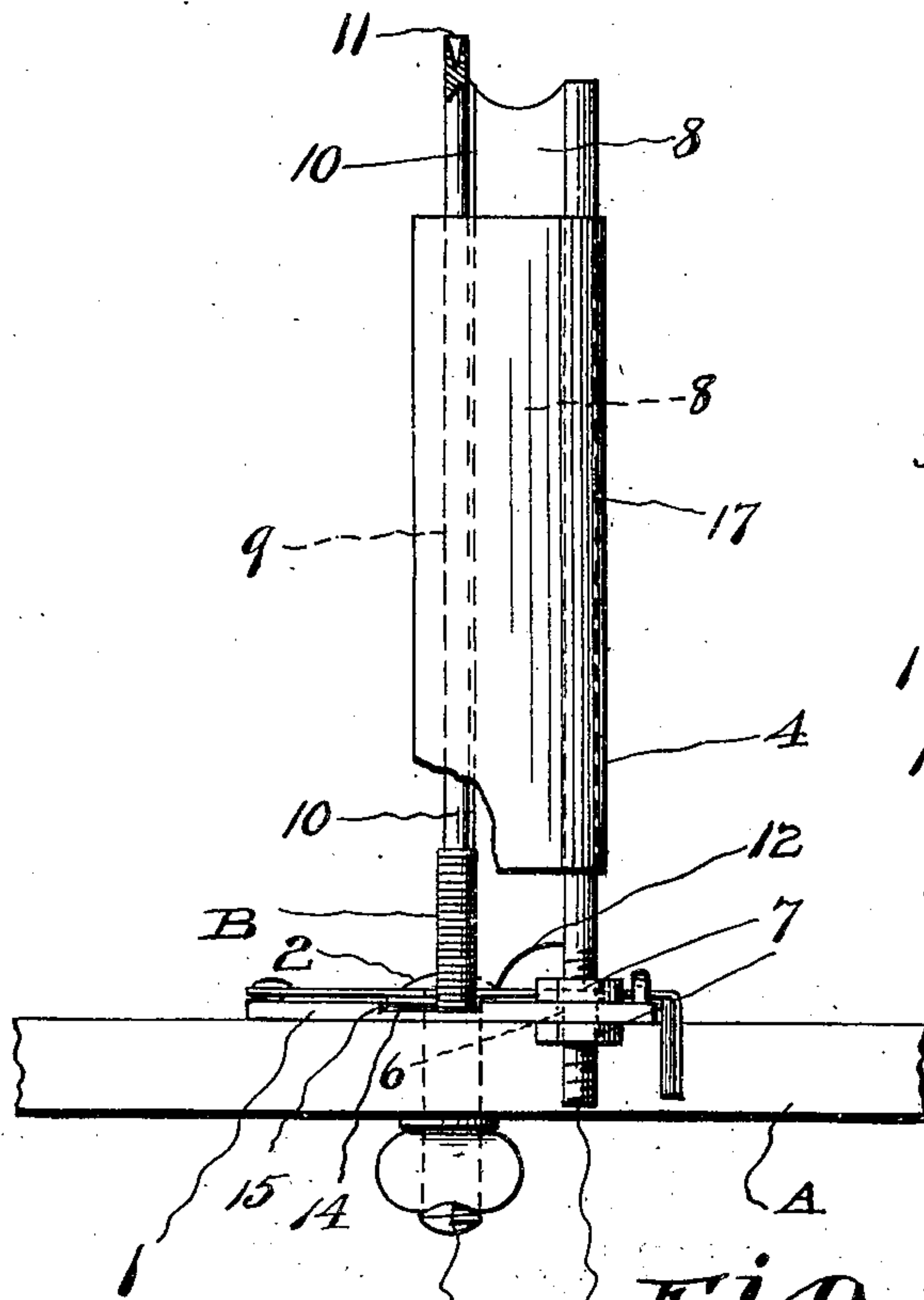


Fig. 2.

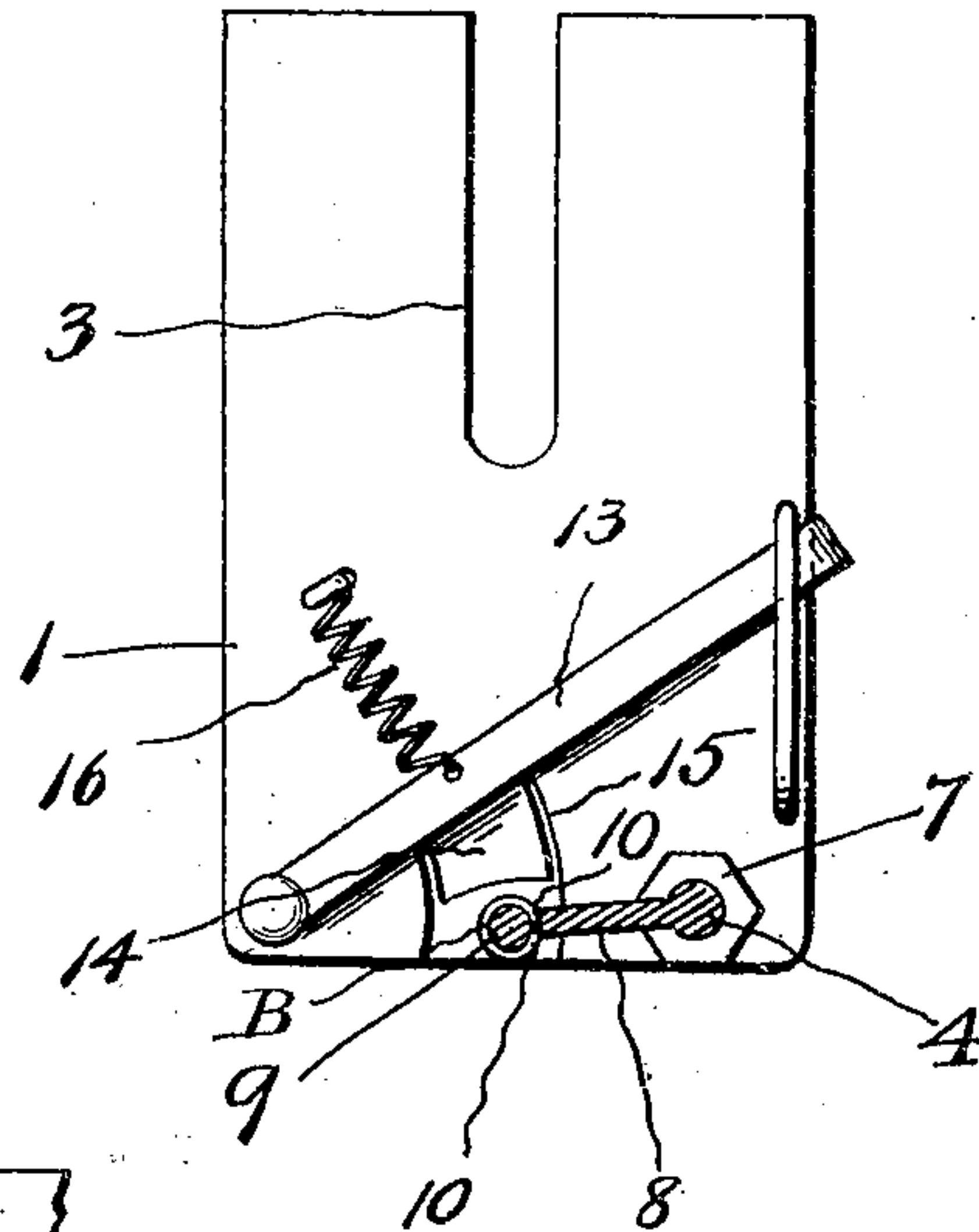


Fig. 3.

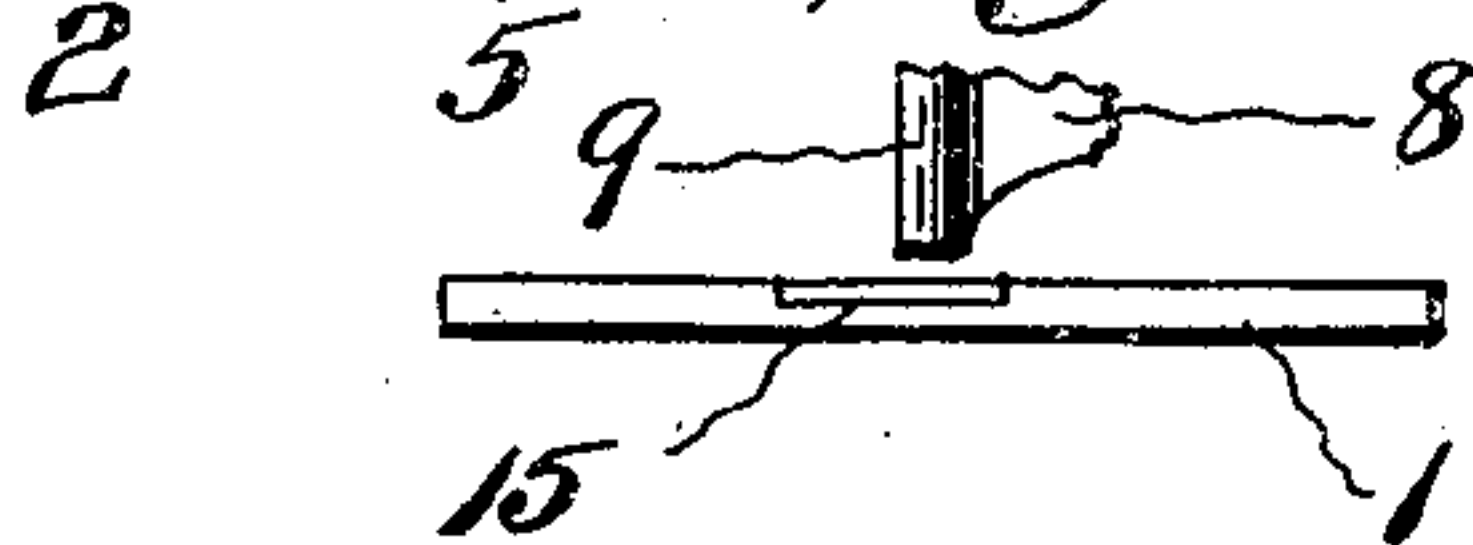


Fig. 4.



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HOLDER FOR TRAVELERS USED IN COTTON-SPINNING MACHINES.

No. 925,298.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed March 9, 1909. Serial No. 482,367.

To all whom it may concern:

Be it known that we, JAMES H. COBB and GEORGE T. FLEMING, citizens of the United States, and residents of Belton, in the county of Anderson and State of South Carolina, have invented certain new and useful Improvements in Holders for Travelers Used in Cotton-Spinning Machines, of which the following is a specification.

Our invention relates to devices for holding the travelers used on the spinning rings of the spinning machines, which hold the strands of cotton in position in being spun, and also guides the strands of cotton onto the bobbins.

Heretofore the travelers, which are small U-shaped devices with inwardly-extending prongs, have been kept in bulk in cups, and when required to replace worn or broken ones a disadvantage has been experienced in that several would be linked together and in trying to secure one several would be dropped and as their individual cost is slight it would not pay to take the time to recover them, but in large cotton mills where a number of machines are in operation the aggregate loss is considerable.

The object of our invention is the provision of a device constructed to deliver a single traveler at a time, and consists of a base secured to a suitable support, such as the bed of a machine, and having an upright adjustable support for holding the travelers, the holding device having its lower end spaced apart from the base a distance equal to the thickness of a single traveler. An arm is pivotally secured to the base and provided with a lug thin enough to pass between the base and the holder to push the lowermost traveler out when the arm is swung, the arm being returned to its normal position after each operation by means of a coil-spring secured thereto and to the base or support on which the base is secured.

The top of the holder is formed with a socket to receive the end of a rod on which the travelers may be mounted preparatory to placing them on the holder, and the upper end of the holder is covered by a shield secured to the support to prevent removal of travelers by sliding them off of the top of the holder and making it necessary to remove them singly by means of the rocking arm.

The construction and operation of our improved device will be explained in detail

hereinafter and illustrated in the accompanying drawings, in which—

Figure 1 is a front view of our improved holder in position, showing a fragment of the support; Fig. 2, a plan view of the base, showing the holder in section; Fig. 3, a fragmental view of the delivery end of the holder empty; and Fig. 4, a view of one of the travelers.

In the drawings similar reference characters indicate corresponding parts in the several views.

A indicates the bed of a spinning machine to which the base 1 of our improved holder is secured by means of a bolt 2, secured to the bed A and engaging a slot 3 in said base 1.

4 indicates a support having its lower end threaded, as shown at 5, and secured in a hole 6 in base 1 by means of nuts 7. The upper portion of the support 4 has a laterally-extending web 8, with its other edge enlarged into a bead 9, substantially circular in cross-section and with each side of the web adjacent to the bead grooved, as shown at 10.

The travelers shown at B are, as above stated, small U-shaped devices, having inwardly-extending prongs b, which when in place on the holder fit the bead 9, while the prongs b engage the grooves 10. The upper end of the bead 9 is formed with a socket 11 to receive the point of a rod or other implement, (not shown), on which the travelers B are strung preparatory to placing them on the holder, and the lower end of the web 8 is cut away, as shown at 12, to admit of moving the nut 7 on top of the base in adjusting the distance of the lower end of the bead above the base to the thickness of the travelers B mounted thereon.

13 indicates an arm pivotally secured at one end of the base 1, and having a lug 14, extending from its under side and riding in a segmental groove in base 1.

16 indicates coil spring secured to arm 13 and base 1 to hold the arm normally in an inoperative position.

17 indicates a tubular shield secured to the support 4 and inclosing the upper part of bead 9 to prevent removal of the travelers by sliding them off of the upper end of the bead.

In operation, the travelers being in position on the bead 9, the lower end of which is spaced above the bottom of groove 15 the thickness of a single traveler, the removal of

the travelers may be accomplished singly by swinging arm 13 against the resistance of spring 16, so that the lug 14 passes between the lower end of the bead and the bottom of the groove. This will push out the lowermost traveler, which is held in position between the bead and base by the weight of the travelers above it, and when the arm is released the spring 15 will return it to its normal position and the travelers will slide downwardly so that there will be another one in position to be removed by the operation just described.

Having thus described our invention, what we claim is:—

1. A device for holding travelers used in cotton-spinning machines comprising a base, an upright holder for the travelers having a threaded portion supported by said base and adjustable thereon, and means to release the travelers singly from said holder, substantially as shown and described.

2. A device for holding travelers used in cotton-spinning machines comprising a base, a holder for the travelers consisting of an upright support mounted on the base, a web extending laterally from said support, a bead on the free edge of the web to hold the travelers, means to space the lower end of said bead above the base the thickness of a single traveler, and means to release the travelers resting on the base, substantially as shown and described.

3. A device for holding travelers used in cotton-spinning machines comprising a base, a vertical support adjustably mounted on said base, a web extending laterally from said support, a bead on the free edge of the web to hold the travelers, said support being adjusted on the base so that the bead is spaced apart therefrom the thickness of a single traveler, means to adjust said support relative to the base, and means to release the lowermost traveler from between the base and the bead, substantially as shown and described.

4. A device for holding travelers used in cotton spinning machines comprising a base, a vertical support having its lower end threaded and engaging said base, nuts engaging said threaded portion of the support to adjust the support on the base, a web extending laterally from said support, a bead on the edge of said web to hold the travelers in vertical alinement, the lower end of the bead being spaced from the base the thickness of a single traveler and the lowermost traveler resting on the base and held in alinement with the superposed travelers by the weight thereof, and mechanism to release the lowermost traveler from its position on the base aforesaid, substantially as shown and described.

5. A device for holding travelers used in cotton-spinning machines comprising a base,

a vertical support having its lower end threaded and engaging said base, nuts engaging said threaded portion of the support to adjust the support on the base, a web extending laterally from said support, a bead on the edge of said web to hold the travelers in vertical alinement, the lower end of the bead being spaced from the base the thickness of a single traveler and the lowermost traveler resting on the base and held in alinement with the superposed travelers by the weight thereof, an arm pivotally secured to the base, and a lug on said arm to engage the lowermost traveler, substantially as shown and described.

6. A device for holding travelers used in cotton-spinning machines comprising a base, a vertical support having its lower end threaded and engaging said base, nuts engaging said threaded portion to adjust the support on the base, a web extending laterally from said support, a bead on the edge of said web, the web adjacent to the bead grooved, said bead and grooved web to hold the travelers in vertical alinement, the lower end of the bead spaced from the base the thickness of a single traveler and the lowermost traveler resting on the base and held in alinement with the superposed travelers by the weight thereof, and mechanism to release the lowermost traveler from its position on the base, substantially as shown and described.

7. A device for holding travelers used in cotton-spinning machines comprising a base, a vertical support having its lower end threaded and engaging said base, nuts engaging said threaded portion to adjust the support on the base, a web extending laterally from said support, a bead on the edge of said web, the web adjacent to the bead grooved, said bead and grooved web to hold the travelers in vertical alinement, the lower end of the bead spaced from the base the thickness of a single traveler and the lowermost traveler resting on the base and held in alinement with the superposed travelers by the weight thereof, an arm pivotally secured to the base, and a lug on said arm to engage the lowermost traveler, substantially as shown and described.

8. A device for holding travelers used in cotton-spinning machines comprising a base, a vertical support having a threaded portion mounted on the base and formed to hold the travelers in vertical alinement, means to adjust the support above the base the thickness of a single traveler, means to displace the lowermost traveler from the base, and a shield covering the upper end of the traveler, substantially as shown and described.

9. A device for holding travelers used in cotton-spinning machines comprising a base, a vertical support having its lower end threaded and engaging said base, nuts en-

gaging said threaded portion of the support to adjust the support on the base, a web extending laterally from said support, a bead on the edge of said web to hold the travelers in vertical alinement, the lower end of the bead being spaced apart from the base the thickness of a single traveler and the lowermost traveler resting on the base and held in alinement with the superposed travelers by the weight thereof, means to displace the lowermost traveler from its position on the base, and a shield covering the upper end of the support aforesaid, substantially as shown and described.

10. A device for holding travelers used in cotton-spinning machines comprising a base, a vertical support having its lower end threaded and engaging said base, nuts engaging said threaded portion to adjust the support on the base, a web extending laterally from said support, a bead on the edge of said web, the web adjacent to the bead grooved, said bead and grooved web to hold the travelers in vertical alinement, the lower end of the bead spaced from the base the thickness of a single traveler and the lowermost traveler resting on the base and held in alinement with the superposed travelers by the weight thereof, means to displace the lowermost traveler from its position on the base, and a shield covering the upper end of the support, substantially as shown and described.

11. A device for holding travelers used in cotton-spinning machines comprising a base, a vertical support having its lower end threaded and engaging said base, nuts engaging said threaded portion to adjust the support on the base, a web extending laterally from the said support, a bead on the edge of said web, the web adjacent to the bead grooved, said bead and grooved web to hold the travelers in vertical alinement, the lower end of the bead spaced from the base the

thickness of a single traveler and the lowermost traveler resting on the base and held in alinement with the superposed travelers by the weight thereof, a shield covering the upper end of the support, an arm pivotally secured on the base, a lug on said arm to engage the lowermost traveler when the arm is swung on its pivot, and a spring to return the arm to its normal position, substantially as shown and described.

12. A device for holding travelers used in cotton-spinning machines comprising a base having a segmental groove therein, a vertical support having its lower end threaded and engaging said base, nuts engaging said threaded portion to adjust the support on the base, a web extending laterally from said support, a bead on the edge of said web, the web adjacent to the bead grooved, said bead and grooved web to hold the travelers in vertical alinement, the lower end of the bead positioned above the groove in the base and spaced from the bottom thereof the thickness of a single traveler and the lowermost traveler resting on the bottom of the groove and held in alinement with the superposed travelers by the weight thereof, a shield secured to the support and inclosing the upper end of the bead, an arm pivotally secured to the base, a lug on the underside of the arm and riding in the groove in the base, said lug designed to engage the lowermost traveler and displace it when the arm is swung, and a coil-spring secured to the arm and base to hold the arm normally in an inoperative position, substantially as shown and described.

In witness whereof, we have hereunto set our hands in presence of two subscribing witnesses.

JAMES H. COBB.

GEORGE T. FLEMING.

Witnesses:

LEROY A. WERTS,

A. K. GRIFFIN.