

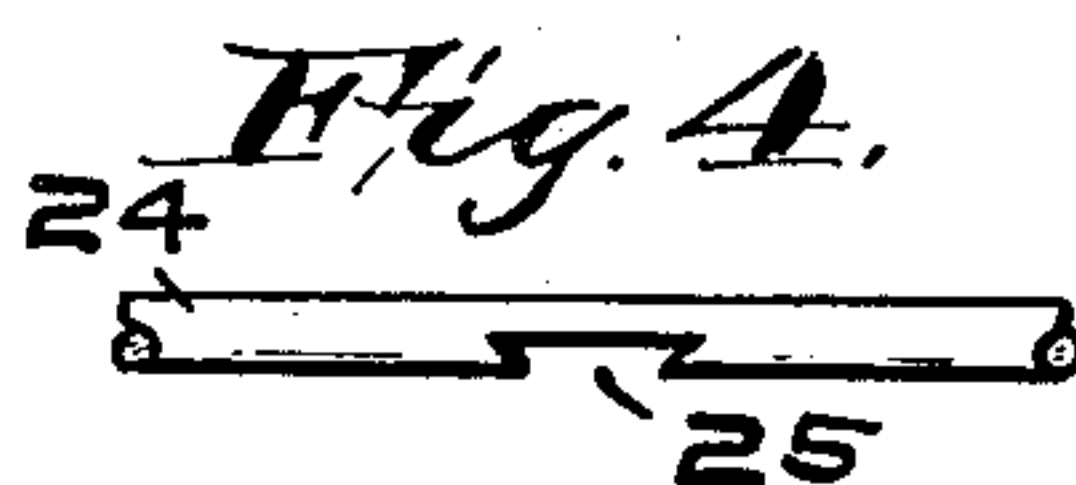
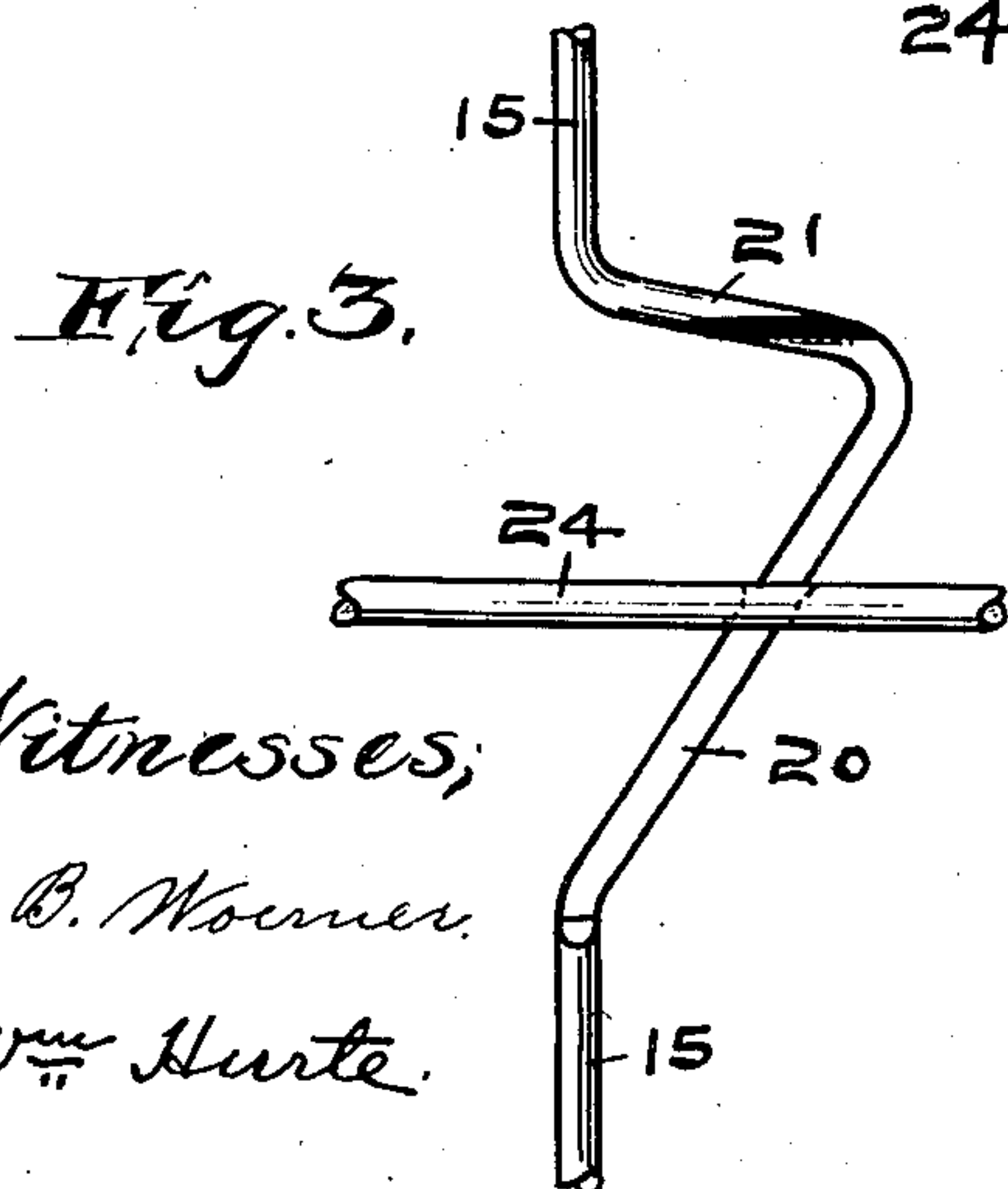
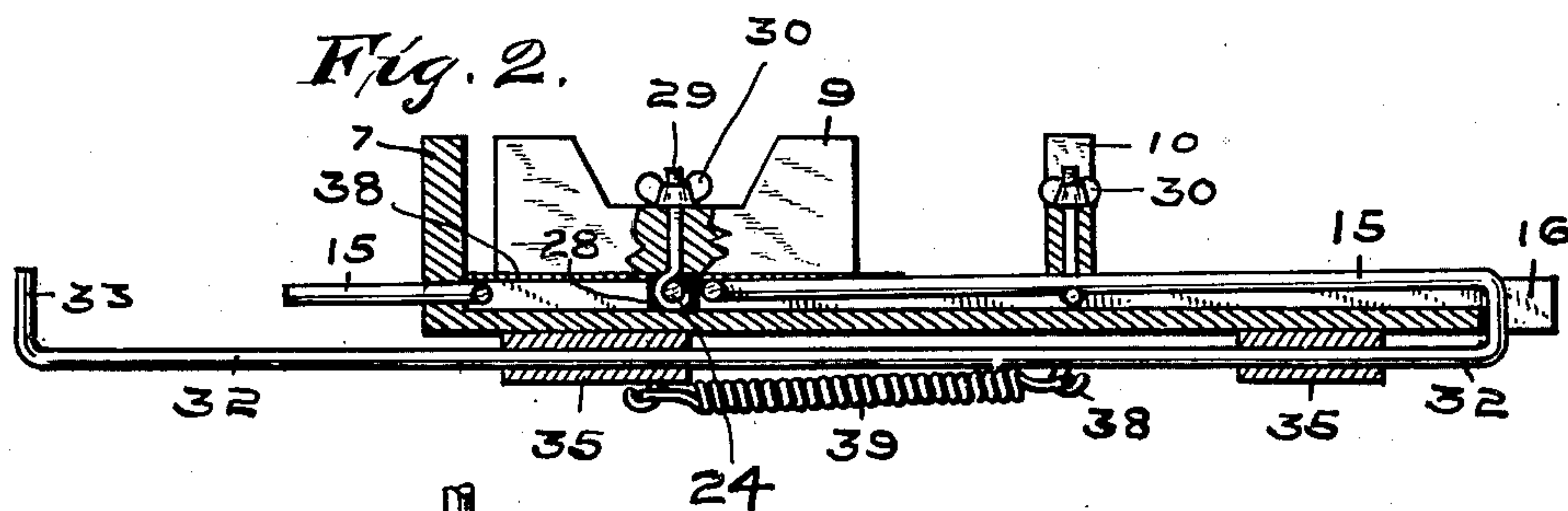
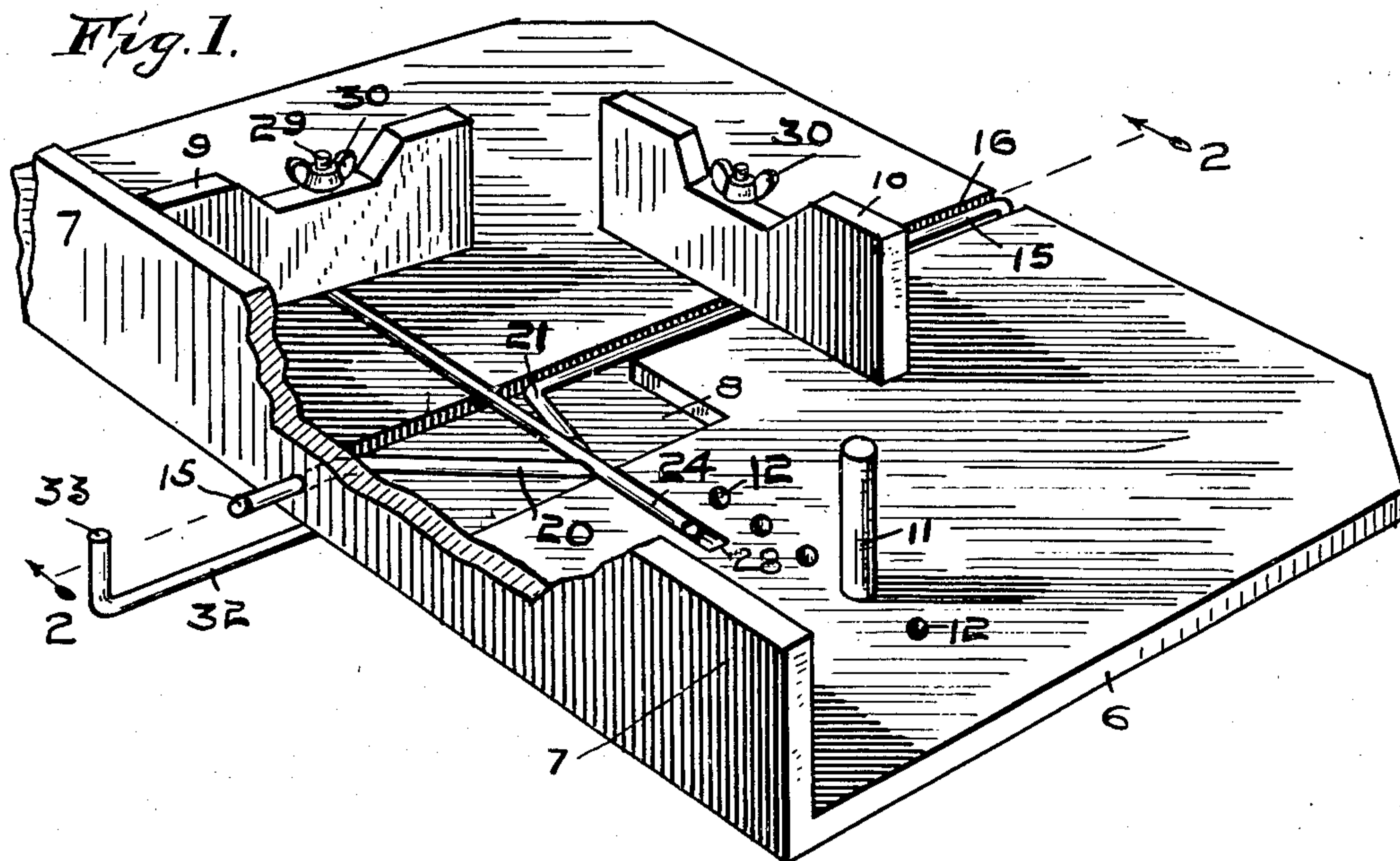
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PATENTED AUG. 6, 1907.

W. W. BRITAN.

JOGGER FOR PLATEN PRINTING PRESSES.

APPLICATION FILED MAY 31, 1907.



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UNITED STATES PATENT OFFICE.

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JOGGER FOR PLATEN PRINTING-PRESSES.

No. 862,801.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed May 31, 1907. Serial No. 376,622.

To all whom it may concern:

Be it known that I, WILLIS W. BRITAN, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Joggers for Platen Printing-Presses, of which the following is a specification.

This invention relates to devices commonly known as "joggers" for straightening up the pile of paper as the sheets are delivered on the piling-table from a printing-press, and is designed to save the time and labor of doing the work by hand.

The invention is particularly applicable to platen-presses, and consists in the novel construction, combination, and arrangement of parts hereinafter described and pointed out in the claims.

I accomplish the objects of my invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of my invention detached from the printing-press. Fig. 2 is a vertical section on the line 2—2 of Fig. 1. Fig. 3 is a detail in top plan view of the diagonally bent operating-bar. Fig. 4 is a detail in side elevation, and Fig. 5 a detail in under-side view of the operating-bar working in conjunction with the bent bar.

Like characters of reference indicate like parts throughout the several views.

In the drawings, 6 represents my improved jogging table which will be attached to the printing-press (not shown) in the usual manner, and is provided at its forward side with a straightening-strip 7. A portion of the upper side of the table 6 is counter-sunk, as indicated at 8, for the reception of the mechanism for operating the jogging-plates 9 and 10. 11 is a post the reduced end of which is inserted in one of the holes 12, here shown as five in number arranged at varying distances from the middle of the table, whereby the post may be changed in its position to suit the varying sizes of the printed sheets discharged from the press upon said table. The sheets of paper as they are delivered from the press after being printed, are deposited on the jogging-table 6 between the straightening-strip 7, post 11, and the jogging plates 9 and 10. The plates 9 and 10 are moved out to allow the sheet to be deposited without interference and are then moved inwardly against the printed sheets in two directions to crowd each sheet firmly against the straightening-strip 7 and the post 11, the strip 7, post 11, and jogging plates 9 and 10, thus acting conjointly to move the printed sheets into an even pile as the work progresses.

The simultaneous outward and then inward travel of the jogging-plates constitutes the essential feature of my invention and will now be described.

15 is the main operating bar, which extends through

the straightening-strip 7 and thence across the jogging-table 6. It passes through the counter-sunk portion 8 and lies within a groove 16 leading from the counter-sunk part 8. The operating bar 15 is bent to form the diagonal portion 20, and is bent again to form the part 21, approximately at right angles to the bar 15, connecting said bar with the diagonal portion 20. The diagonal portion 20 is cut away approximately half of its diameter on its upper side, as shown in Fig. 3, to allow for the play thereon of the transverse operating bar 24. The latter is provided with the underside dove-tail notch 25 which fits over the thin, diagonal portion 20, of the main operating bar 15. A longitudinal movement of the bar 15 will, by the action of its diagonal portion 20, impart a longitudinal movement to the bar 24 but in a direction at right angles to the main operating bar 15, when the bar 24 is properly directed. In the present invention it is directed by means of the groove 28 formed in the jogging-table 6.

The jogging-plate 9 is fastened to the transverse operating-bar 24 by means of the bolt 29 which passes through the plate and terminates at its lower end with a hook which grasps the bar 24 in the manner clearly shown in Fig. 2. The upper threaded end of the bolt 29 has the wing-nut 30 by means of which the plate 9 is bolted securely to the bar 24, and it also affords the means whereby the plate 9 may be adjusted longitudinally of the bar 24 to meet the requirements of different sized sheets which are to be straightened. The jogging-plate 10 is attached to the main operating bar 15 by means of a similar hook-bolt 29 having a like wing-nut 30 on its upper threaded end.

The main operating bar 15 is bent down in a U-shaped loop around the outer edge of the jogging-table 6 and is continued forward under the table as the bar 32, which terminates in the end hook 33, in front of the straightening strip 7, in the path of the platen of the printing-press. By the contact of the platen with the end 33 of bar 32, the latter will be forced back thereby carrying with it the integrally attached operating bar 15. The bar 32 will pass through the guides 35 on the under side of the table 6. It will have the hook 38 for the attachment thereto of an end of a coiled spring 39, and the other end of the spring 39 will be attached to the guides 35 or other fixed part of the jogging-table. The purpose of this spring is to return the operating bars to positions which will maintain the jogging-plate in contact with the printed sheets on the table. When the device is in use the operating bars within the counter-sunk portion 8 will preferably be protected by means of a metal plate or cover 38 (see Fig. 2).

The operation of my invention will be readily understood from the drawings and above description. By the contact of the platen against the end 33 of rod 32 the integral upper bar 15 will be moved longitudinally thereby moving the jogging-plate 10 away from the

straightening strip 7, and the transverse bar 24 will be moved longitudinally at right angles, in a direction to carry the jogging-plate 9 away from the post 11. Ample room for the discharge of the printed sheet upon table 6 is thus secured, and upon the release of the rod 32 by the platen of the press the spring 39 will move the rod 32 longitudinally in an inward direction with the result that the connected parts will move the jogging-plates 9 and 10 both in inward directions, pressing the printed sheet against the straightening strip 7 and post 11.

Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

- 15 1. In a jogger, a table, a main operating rod extending transversely of the table; having an oblique portion formed by bending said rod, an auxiliary operating rod at right angles to the main rod having means engaging the oblique portion of the main rod to impart reciprocatory movement in both directions to the auxiliary rod by a longitudinal movement of the main rod, jogging plates carried by each of said rods, and means for moving the main rod.
- 20 2. In a jogger, a table, a main operating rod extending transversely of the table, having an oblique portion formed by bending said rod, and having an extension forward of the table, an auxiliary operating rod at right angles to the main rod having means engaging the oblique portion of the main rod to impart positive reciprocatory movement in both directions to the auxiliary rod by a longitudinal movement of the main rod, jogging plates carried by each of said rods, means for imparting an outward movement to the main rod and a spring to return it to its former position.
- 25 3. In a jogger for platen printing presses, a table, a main operating rod extending transversely of the table having an oblique portion formed by bending said rod and an extension forward of the table terminating in the path of the movable platen of the press whereby the rod is moved longitudinally, an auxiliary operating rod at right angles to the main rod having means engaging the oblique portion of the main rod to impart reciprocatory movement to the auxiliary rod by a longitudinal movement of the main rod, jogging plates carried by each of said rods, and a spring to return the main operating rod to its normal inner position.
- 30 4. In a jogger for platen printing-presses, a table having

a counter-sunk portion on its upper surface with a groove extension from said counter-sunk portion transversely of the table and a second groove at right angles to the first groove crossing said counter-sunk portion, a main operating rod extending transversely of the table in said transverse groove and having an oblique portion located in said counter-sunk portion of the table, an auxiliary operating rod at right angles to the main rod having a notch to receive the oblique portion of the main rod, said auxiliary rod being located in the groove at right angles to the said transverse groove, jogging plates adjustably secured to each of said rods, a spring for holding the main operating rod in a normal inward position and means actuated by the platen of the printing-press for imparting an outward longitudinal movement to the main operating rod.

5. In a jogger for platen printing presses, a table, a main operating rod extending transversely of the table in lowered portions formed in the top of said table, said rod having a portion of its length bent to form an oblique part of the rod, the outer end of said main operating rod being bent around the outer edge of the table and said rod being thence carried under the table and terminating in front of the latter in the path of the moving platen of the press, an auxiliary operating rod crossing the oblique portion of the main rod and notched for engagement by said oblique portion, a spring for returning the main rod to a normal position, and jogging plates carried by the main and auxiliary rods and adjustable longitudinally of said rods.

6. In a jogger for platen printing presses, a table, a main operating rod in U-form extending transversely of the table and having one of its stems above and the other below the table, the lower stem terminating in front of the table in the path of the platen of the press so as to be moved longitudinally thereby and the other stem which rests upon the top of the table being bent so as to form a rearwardly oblique portion, an auxiliary operating rod crossing the oblique portion of the main rod and having a notch to engage said oblique portion whereby longitudinal reciprocating movement will be imparted to the auxiliary rod by a movement longitudinally of the main rod, means for controlling the direction of movement of both rods, means to return the main rod to an inner normal position, and a jogging plate adjustably secured to each of said rods.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this, 21st day of May, A. D. one thousand nine hundred and seven.

WILLIS W. BRITAN. [L. S.]

Witnesses:

I. W. WOERNER,
E. E. MILLER.