

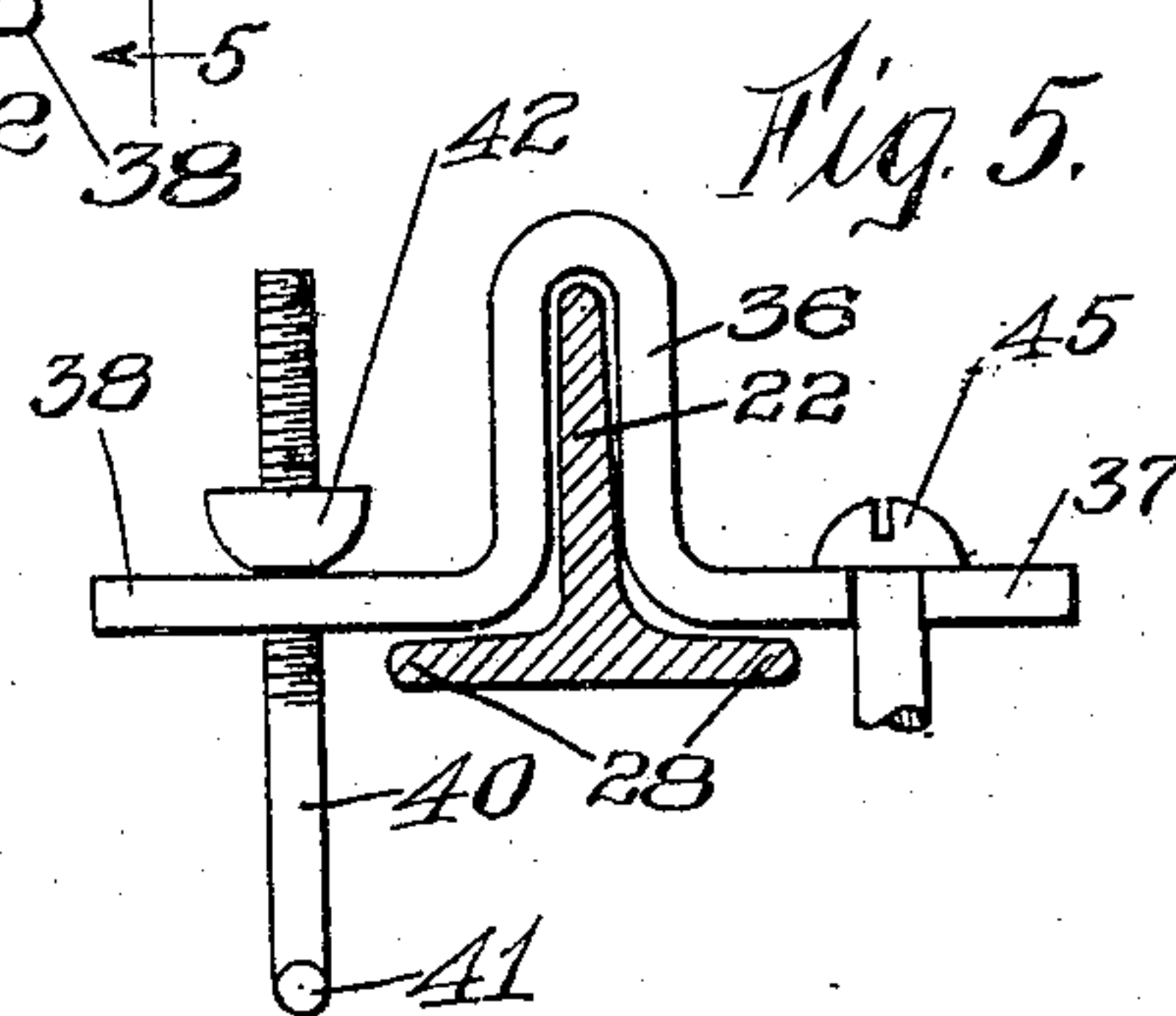
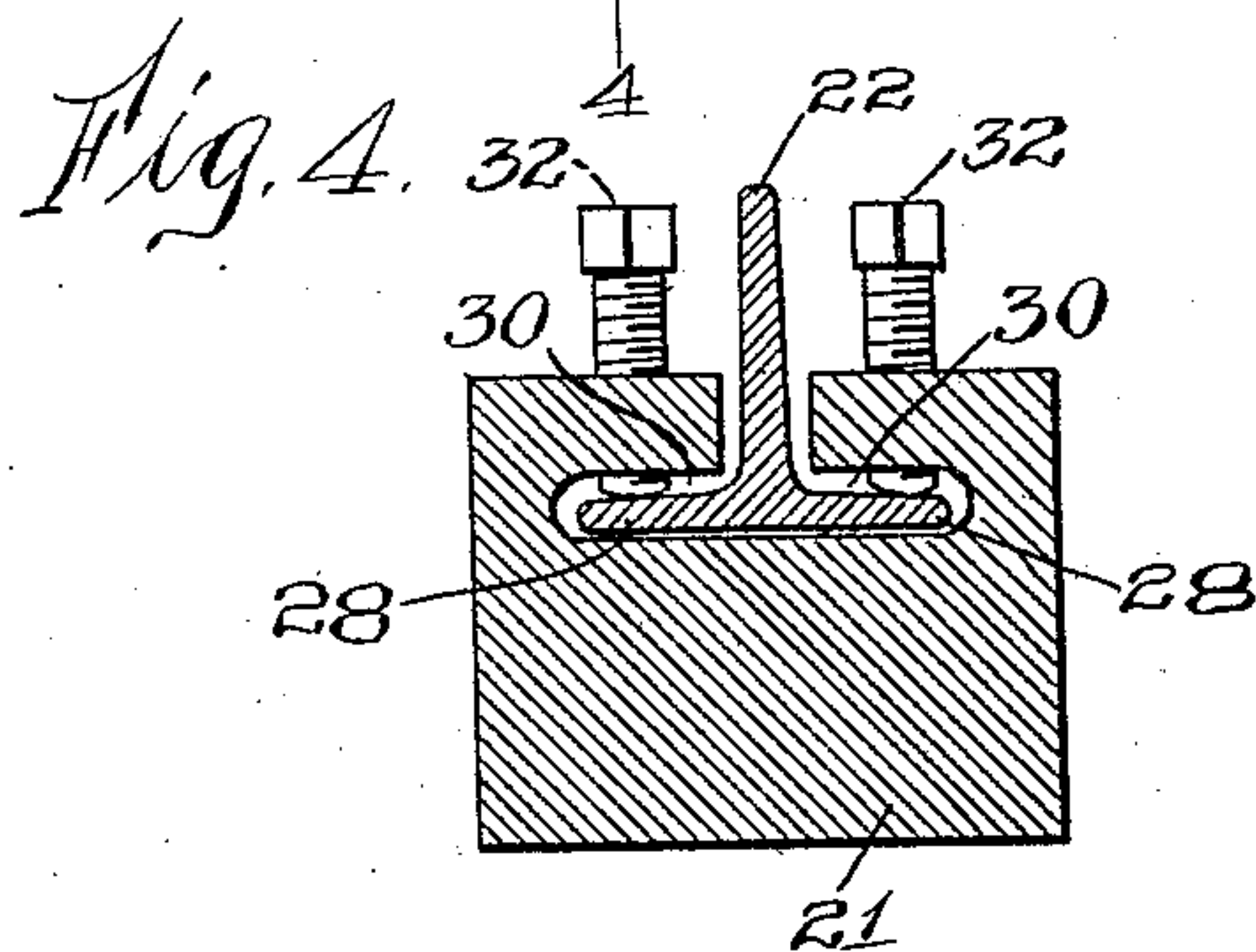
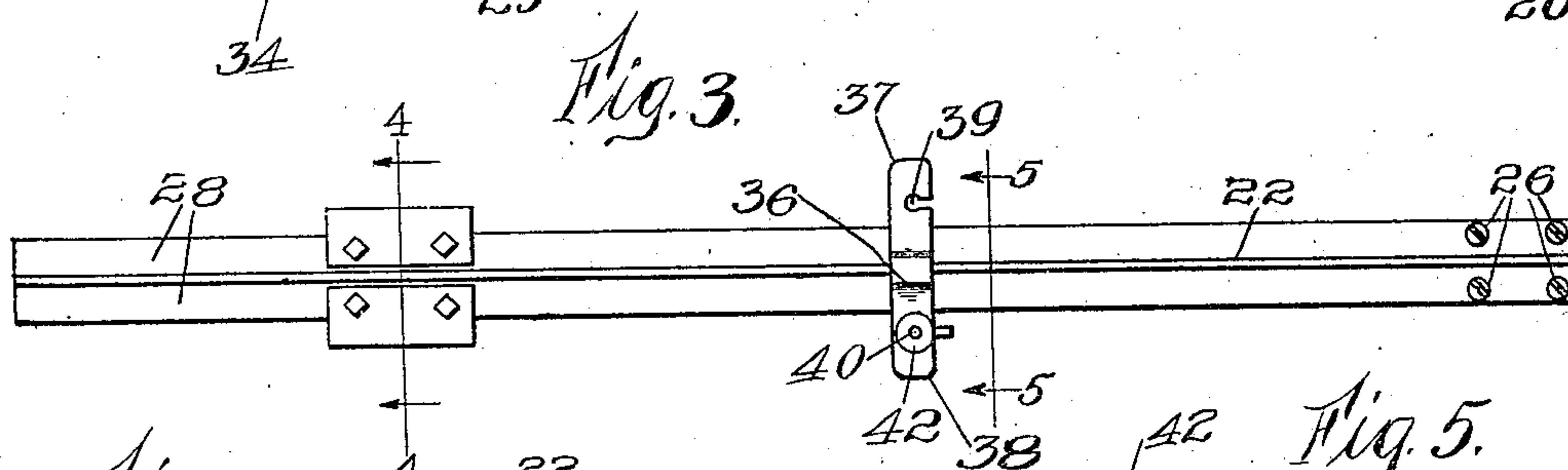
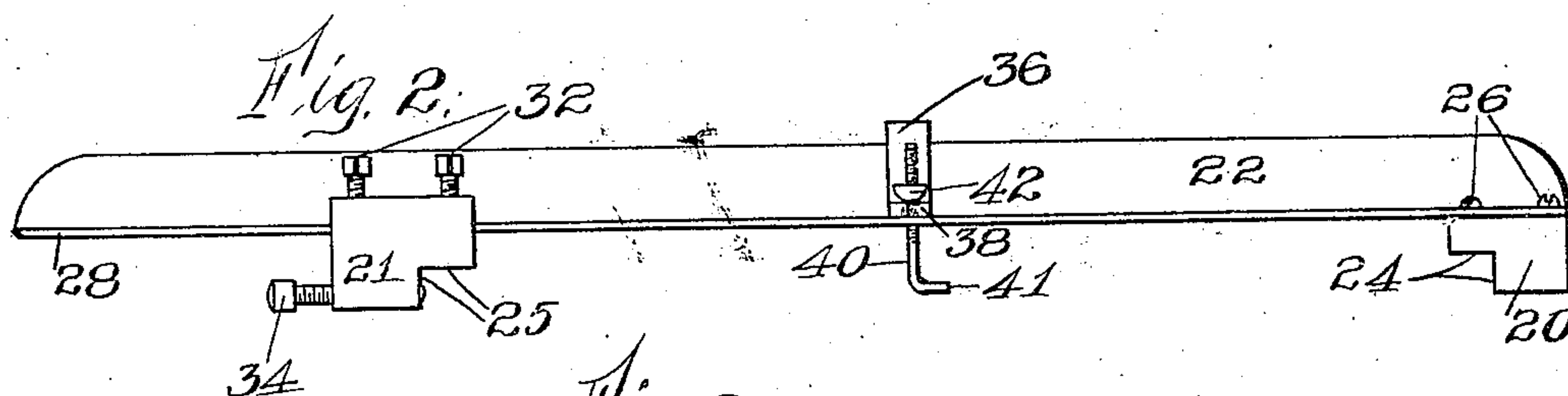
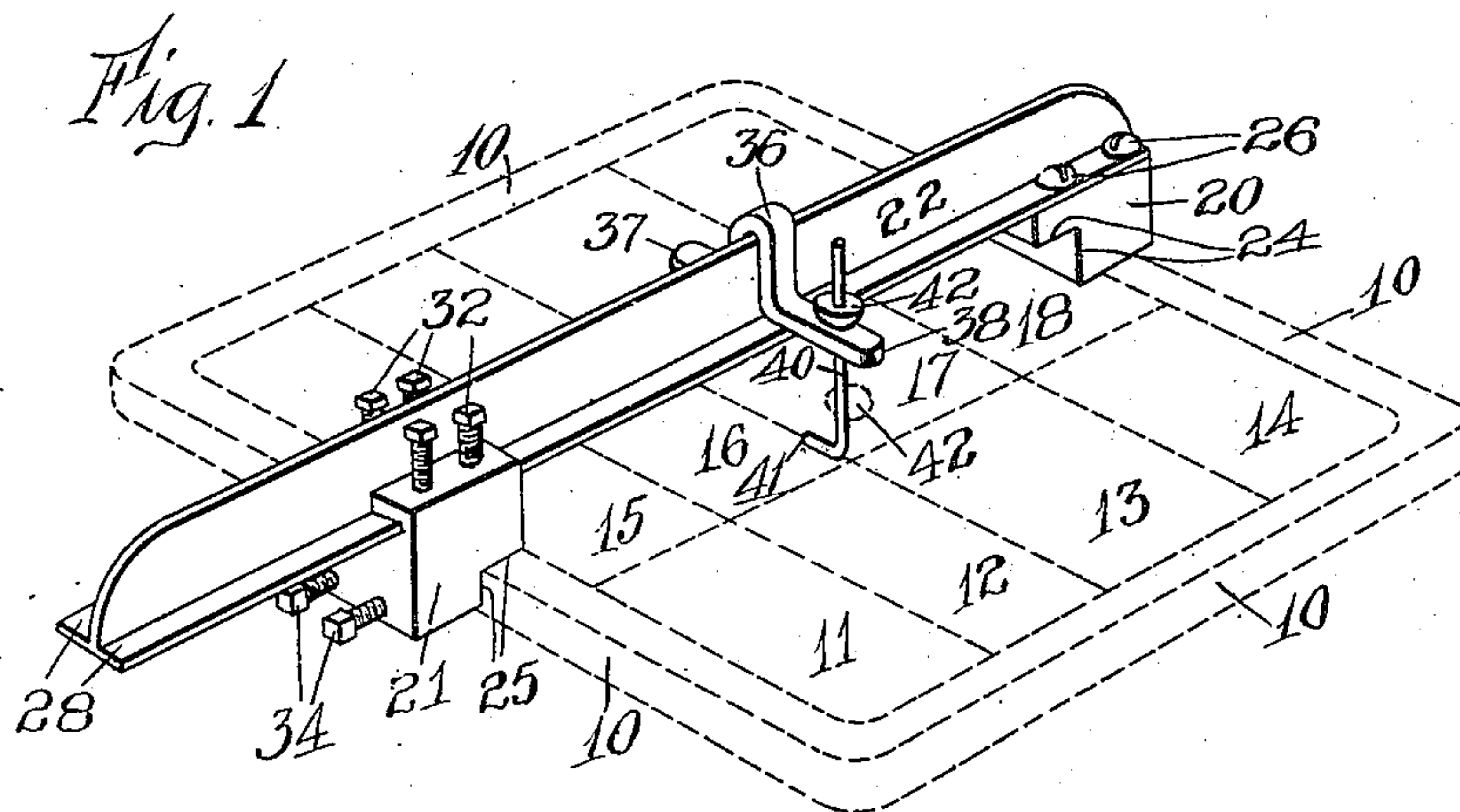
No. 848,363.

PATENTED MAR. 26, 1907.

J. E. GILBERT.

ADJUSTABLE CROSS BAR FOR PRINTERS' CHASES.

APPLICATION FILED JULY 13, 1906.



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UNITED STATES PATENT OFFICE.

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ADJUSTABLE CROSS-BAR FOR PRINTERS' CHASES.

No. 848,363.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed July 13, 1906. Serial No. 326,080.

To all whom it may concern:

Be it known that I, JAMES E. GILBERT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Adjustable Cross-Bars for Printers' Chases, of which the following is a specification.

My invention relates to cross-bars for printers' chases; and the object of my invention is to make an adjustable bar which can be placed over a printer's chase containing a form resting upon a printer's stone for the purpose of temporarily clamping the chase, so that it may be safely lifted and carried to the press, thereby doing away with the necessity of sliding the entire form off from the stone onto a carrying-board and then sliding it back again onto the press, thereby causing the slivers of wood from the carrying board or frame to get into or interfere with the type of the chase.

My invention consists in a device capable of accomplishing the above objects, which can be cheaply made, which is not readily liable to get out of order, and in which it is possible to support type-plates in the middle of the chase directly from the adjustable bar, thereby aiding the bar in its ordinary function.

My invention further consists in details of construction which will be hereafter more fully described and claimed as the specification proceeds.

Referring to the drawings, Figure 1 is a perspective view of a printer's chase having the device of my invention applied thereto. Fig. 2 is a side elevation of the device of my invention. Fig. 3 is a plan view of Fig. 1. Fig. 4 is a sectional end view on the lines 4-4 of Fig. 3. Fig. 5 is a sectional side view on the line 5 of Fig. 3, showing the details of the attachment for supporting a block in the chase directly from the adjustable bar.

Again referring to the drawings, Fig. 1 shows a printer's chase 10, having within it cuts or other printed matter 11, 12, 13, 14, 15, 16, 17, and 18. When a chase is of considerable size, the frame 10 is not ordinarily of sufficient rigidity so that the type matter inside the frame can be so securely locked within the frame that the form can be lifted from the composing-stone and carried to the press, and in order to assure such safe lifting

it is desired to provide some means for clamping opposite sides of the chase between its ends together, which I accomplish by means of my bar, which consists of two blocks 20 and 21, connected by a T-bar or other suitable member 22. The block 20 has cut in its inner face a notch 24, and the block 21 has cut in it a corresponding notch 25, the two notches 24 and 25 being so proportioned that a part of each block bears against the outside of the chase, while a substantial portion of the block is above the upper surface of the chase, as shown. The bar 22, heretofore referred to, is secured to the block 20 by being made integral with it or by any other suitable means—as, for instance, the screws 26. The bar 22 is slidingly mounted in a suitable recess 30 in the block 21 at a height equal to the height of the opposite end of the bar above the top of notch 24. This block 21 may be temporarily rigidly secured to the bar 22 by means of the set-screws 32 shown engaging the flanges 28 of the bar. The result of providing the notches 24 and 25 and attached parts described is that the bar 22 is of sufficient height above the type-matter of the chase so that there is no interference or rubbing between the two.

In order to cause the bar to tightly grasp the chase, I first, by adjusting the screw 32, move the device to the position shown in Fig. 1 and then tighten horizontal set-screws 34, passing horizontally through the block 21 and bearing against the side of the chase, thereby pressing the two opposite sides of the chase together. When this has been done, it is possible to safely lift the chase with the type-matter in it and move the same from the stone to the press. When the chase has been removed to the press, the operator either loosens the set-screws 32 or 34, or both, and removes the bar. In order to further insure the safety of the matter within the chase, I provide one or more adjustable riders 36, made, preferably, in inverted-U-shape, as shown, to fit the T of the cross-bar 22, there being extended from the U proper horizontal arms 37 and 38, as shown. In these horizontal arms 37 and 38 I provide openings 39, in which fit depending rods 40, having hooks 41, adapted to engage suitable openings 42, preferably provided in the cuts or other matter in the printing-form. On the upper ends of these rods 40 I screw-

thread thumb-nuts 42, so that by adjusting these thumb-nuts the rods 40 may be brought to a sufficient tension upon the horizontal arms 37 and 38 to properly support the type or cut matter within the chase. If desired, these special rods 40 may be dispensed with and ordinary wood-screws 45 or equivalent mechanism may be passed through the openings 39 and screwed into convenient blank faces in the forms which do not contain printing matter; but this construction is not as satisfactory as the preferred construction first described. As will be seen by the drawings, these riders 36 may be moved along the bar 22 to any point where it is desired to have the interior portion of the type-form supported in the manner described. When one or more of these riders is used, as just described, it is manifestly necessary to remove them from contact with the type matter prior to the time that the bar proper is removed from the chase, as heretofore described. In practice the rider described is usually connected to the parts of the form which form the margins, technically called "furniture."

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

30 1. In mechanism of the class described, an adjustable cross-bar for printers' chases consisting of two blocks notched to rest upon and bear against opposite sides of a chase, a

connecting-bar between said blocks, detachably connected to one block, said bar being at such a height above the notches in the block that when the blocks are in proper position the bar clears the type in the chase, and means for detachably securing the bar to the adjustable block.

2. In mechanism of the class described, an adjustable cross-bar for printers' chases consisting of two blocks notched to rest upon and bear against opposite sides of a chase, a connecting-bar rigidly secured to one of said blocks and detachably connected to the other block, at such a height that when the blocks are in proper position the bar clears the type in the chase, means for detachably securing the bar to the adjustable block, and means in one of said blocks for securing pressure against the adjacent side of the chase.

3. In mechanism of the class described in combination with an adjustable bar adapted to be secured to opposite sides of a printer's chase, a rider adjustably movable along said bar and means for detachably securing a portion of the type-form within the printer's chase to said adjustable rider.

In witness whereof I have hereunto subscribed my name in the presence of two witnesses.

JAMES E. GILBERT.

Witnesses:

HERMAN SAUTER,
DWIGHT B. CHEEVER.