

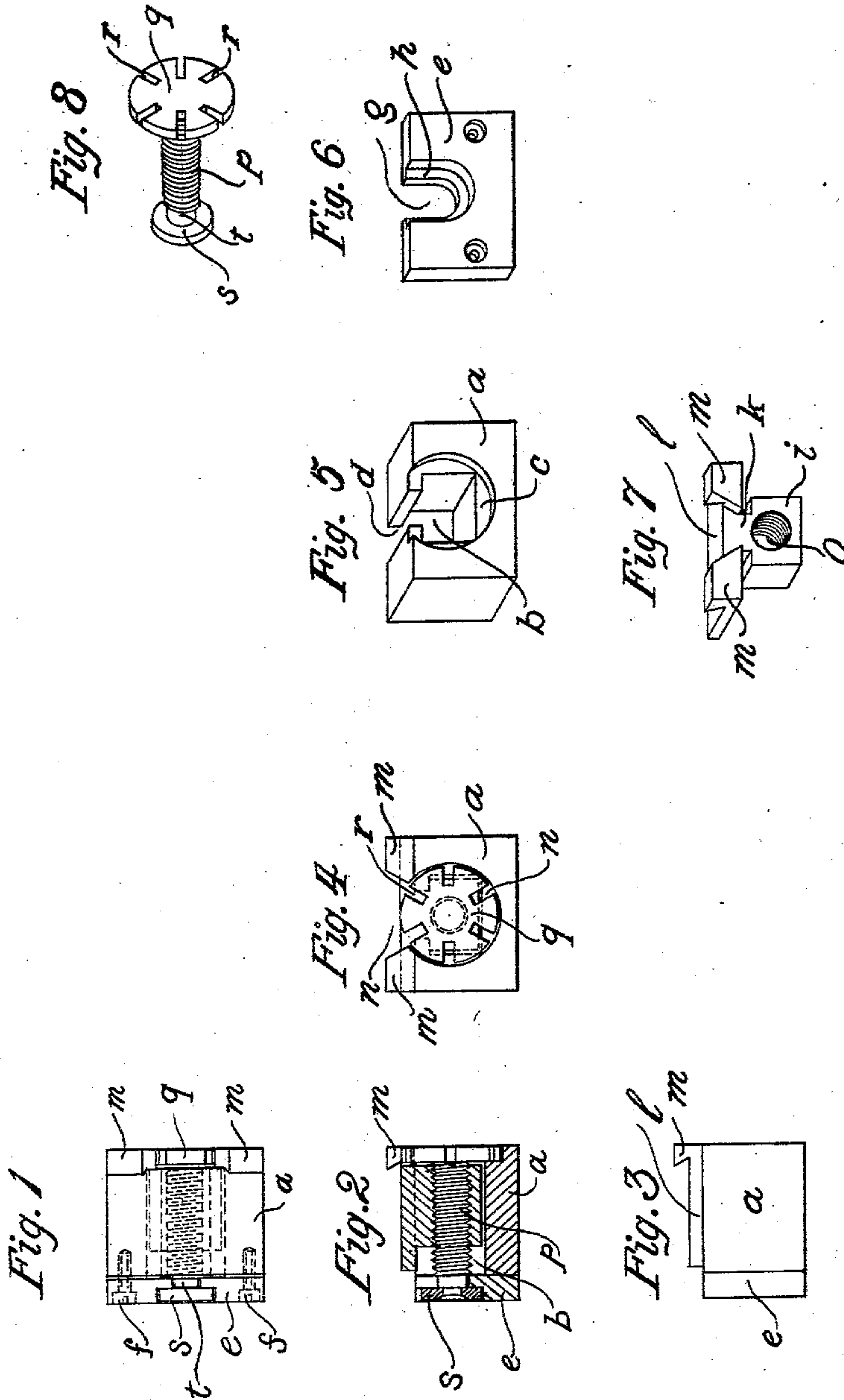
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PATENTED DEC. 1, 1903.

W. S. TIMMIS.  
PRINTER'S BLOCK.

APPLICATION FILED JUNE 10, 1902.

NO MODEL.



Witnesses:

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## UNITED STATES PATENT OFFICE.

WALTER S. TIMMIS, OF CRANFORD, NEW JERSEY.

## PRINTER'S BLOCK.

SPECIFICATION forming part of Letters Patent No. 745,467, dated December 1, 1903.

Application filed June 10, 1902. Serial No. 110,957. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER S. TIMMIS, a citizen of the United States, and a resident of Cranford, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Printers' Blocks, of which the following is a specification.

My invention relates to printers' blocks for holding an electrotpe or other printing plate in the form while being printed from and for adjusting the same laterally therein, so as to bring it exactly into the desired position for printing upon a predetermined portion of a sheet of paper or other material.

The object of my invention is to provide a block adapted to securely hold and permit of the accurate and easy adjustment of an electrotpe or other printing plate and which may permit the edges of adjacent plates to approach more nearly together than has heretofore been possible, which block shall be durable, compact, easily operated, and possess other advantages hereinafter pointed out or referred to.

The invention consists in the novel construction, combination, and arrangement of a base, a sliding piece, and means for operating the same with other parts and devices, as hereinafter and in the accompanying drawings more particularly set forth.

In the accompanying drawings, Figure 1 is a top view of the invention. Fig. 2 is a longitudinal vertical section; Fig. 3, a side view; Fig. 4, a front end view; Fig. 5, a perspective view of the block proper with all moving parts removed. Fig. 6 is a perspective view of the rear plate. Fig. 7 is a perspective view of the sliding piece, and Fig. 8 a perspective view of the device for moving the sliding piece.

In carrying my invention into effect I provide a hollowed block or casing *a*, having a longitudinal bore or opening *b*, which is rectangular in cross-section for the greater portion of its length, but the front end of which is enlarged into a circular opening *c*. The bore *b* is open at the top, this opening constituting a slot *d*. To the rear of the block *a* a plate *e* is secured by screws *f*. This plate is particularly shown in Fig. 6. It has an opening or recess *g* in its edge, a portion of which

is narrower than the rest, forming a flange or ridge *h*. (See Figs. 1 and 6.)

A sliding piece is also provided, which is shown particularly in Fig. 7. The lower part *i* is adapted to fit into the bore *b* of the block *a*, an upright neck *k* is adapted to pass through the slot *d*, and a flat upper portion *l* is adapted to slide upon the top of the block *a*. The front end of the upper portion *l* is provided with two upwardly-projecting flanges or hooks *m*, which also extend out forward beyond the lower part *i* and between which is a recess *n*. (See Fig. 4.) Longitudinally extending through the lower portion *i* is a screw-threaded aperture *o*.

A screw device for moving the sliding piece is also provided, which is particularly shown in Fig. 8. This device comprises the screw *p*, the disk *q* at the front end, provided with notches *r*, and the disk *s*, smaller than the disk *q*, at the rear end. A groove or annular recess *t* is provided between the end of the screw-threads and the disk *s*, as shown in Fig. 8.

When the parts above described are assembled, the screw *p* is passed into the screw-threaded opening *o* of the sliding piece, which is then inserted into the block *a*, the disk *q* then lying in the recess *c*. The disk *s* is then secured to the end of the screw and the end of the screw passed into the opening *g* in the plate *e*, the flange or ridge *h* of the plate *e* lying in the groove *t* at the end of the screw. The sliding piece and other parts are then in the positions shown in Figs. 1, 2, and 3.

Instead of having the sliding piece provided with a pair of hooks or jaws projecting forward, so as to be capable of being in the same vertical plane as the front end of the means for moving the sliding piece, I may provide one or more hooks or jaws not projecting beyond the front end of the sliding piece, but lying in a plane behind the front end of the means for moving the sliding piece, so as to permit access to said means for moving in front of the hooks.

The operation of my invention is as follows: A suitable number of the devices are placed in the form in position to hold the edges of an electrotpe or other printing plate



and are secured therein by suitable means, as will be well understood. The edges of the printing-plate are then placed on the flat top portion *l* of the sliding pieces, the beveled edges of the plate being securely held by the undercut rear sides of the hooks *m*. The plate may then be adjusted laterally with great facility and with perfect accuracy by turning the screws of the various blocks, of course slackening the screws of the blocks on the side of the plate toward which it is desired to move the plate before substantially moving forward the screws of the blocks on the other side. The screws are turned by inserting any suitable lever device through the recess *n* between the hooks *m* and into the notches *r* of the disk *q*. The thrust of the screw when the sliding piece is moved backward is taken up by the disk *s* acting upon the plate *e*.

The simplicity, compactness, strength, and ease of operation of my invention are self-evident. I wish to call attention particularly to one important advantage, however, which is that owing to the construction of the front part of the sliding piece the hooks *m* and the disk *q* are capable of being placed in the same vertical plane instead of in adjacent planes, as heretofore, thus permitting the edges of adjacent printing-plates, held by oppositely-facing blocks, to approach much nearer to each other than could otherwise be the case and permitting very narrow margins to be produced when desired—an advantage the importance of which will be readily appreciated by those skilled in the art.

It will be observed that when a plurality of printing-plates are placed together in a form and held by my improved blocks any one may be easily adjusted notwithstanding that another plate may be in close juxtaposition, such juxtaposition interposing no obstacle to the ready access to the adjusting means of my blocks.

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

1. In a printer's block, the combination with the block proper, provided with a notched or apertured rear plate, of a sliding piece adapted to engage with a printing-plate, and means for moving said sliding piece, comprising a screw revolubly secured to said rear plate and means on said screw for revolving the same; said means being adapted to be operated from a point above the same and being capable of being placed in approximately the same vertical plane as the said hooks or jaws.

2. In a printer's block, the combination with the block proper, provided with a notched or apertured rear plate, of a sliding piece adapted to engage with a printing-plate, and means for moving said sliding piece, comprising a screw revolubly secured to said rear plate and means on said screw for revolving the same; said means being capable of being placed in approximately the same vertical

plane as the said hooks or jaws, and the said hooks or jaws being separated sufficiently from each other to permit access between them to the said moving means for the purpose of operating same.

3. In a printer's block, the combination with the block proper, provided with a notched or apertured rear plate; of a sliding piece provided at its forward corners with hooks or jaws, separated laterally from each other and projecting forward beyond the end of the lower part of the sliding piece; and a screw passing through said sliding piece and revolubly secured to said rear plate, said screw being provided upon its front end with means for revolving the same; the said projecting hooks or jaws being capable of being placed in approximately the same vertical plane as said screw-revolving means.

4. A printer's block, comprising a block proper having a bore or hollow; a rear plate; a sliding piece, adapted to engage with a printing-plate, the lower part of which lies in said bore and the upper part of which slides on the top of said block proper; and a screw adapted to move said sliding piece revolubly secured to said rear plate and provided with means for revolving the said screw; the front edge of said sliding piece and of said screw-revolving means being adapted to be placed in approximately the same vertical plane.

5. A printer's block, comprising a block proper having a bore or hollow; a rear plate; a sliding piece the lower part of which lies in said bore and the upper part of which is provided with hooks or jaws adapted to engage with a printing-plate; and a screw adapted to move said sliding piece revolubly secured to said rear plate and provided with means for revolving the said screw; the said hooks or jaws and the said screw-revolving means being capable of being placed in approximately the same vertical plane and the said hooks or jaws being separated from each other sufficiently to permit access to the screw-moving means below for the purpose of operating same.

6. A printer's block, comprising a block proper having a bore or hollow; a rear plate; a sliding piece the lower part of which lies in said bore and the upper part of which is provided with hooks or jaws adapted to engage with a printing-plate; and a screw adapted to move said sliding piece revolubly secured to said rear plate and provided with means for revolving the said screw comprising a disk provided with teeth or notches; the said hooks or jaws and the said screw-revolving means being capable of being placed in approximately the same vertical plane and the said hooks or jaws being separated from each other sufficiently to permit access to the screw-moving means below for the purpose of operating same.

7. In a printer's block, the combination with the block proper provided with a notched or apertured rear plate, of a sliding piece adapt-



ed to engage with a printing-plate, and means  
for moving said sliding piece, comprising a  
screw, a diminished end of which passes  
through the aperture of said rear plate and  
5 bears outside thereof a disk or washer, and  
provided at its other end with means whereby  
said screw may be revolved.

Signed at New York, in the county of New  
York and State of New York, this 31st day  
of May, A. D. 1902.

WALTER S. TIMMIS.

Witnesses:

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