No. 703,749. Patented July 1, 1902.

E. B. STIMPSON.

ADJUSTABLE GUIDE.

(Application filed Apr. 23, 1902.)

(No Model.)

Fig. 1.

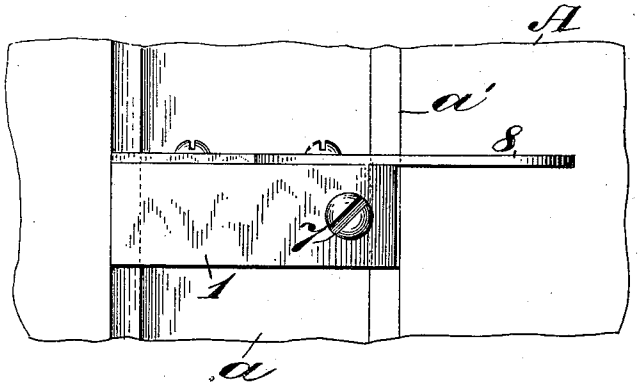


Fig. 2.

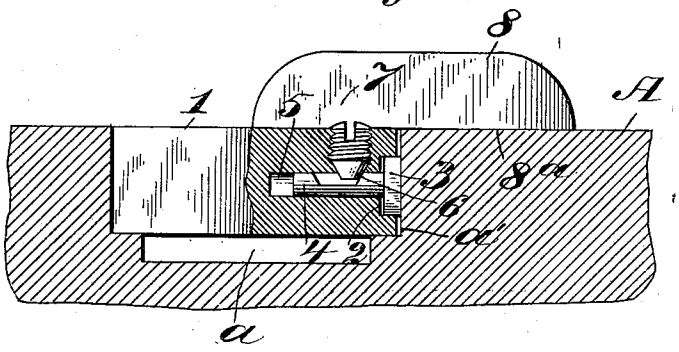
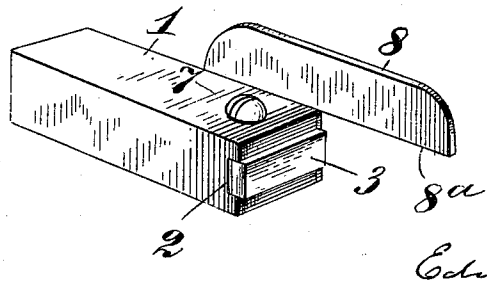


Fig. 3.



Witnesses
F. W. Winans
W. A. Connell

Edwin B. Stimpson
Inventor,
By his Attorney Henry Connett

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EDWIN B. STIMPSON, OF BROOKLYN, NEW YORK.

ADJUSTABLE GUIDE.

SPECIFICATION forming part of Letters Patent No. 703,749, dated July 1, 1902.

Application filed April 23, 1902. Serial No. 104,342. (No model.)

To all whom it may concern:

Be it known that I, EDWIN B. STIMPSON, a citizen of the United States, residing in the borough of Brooklyn, county of Kings, and city and State of New York, have invented certain new and useful Improvements in Adjustable Guides, of which the following is a specification.

This invention relates to the general class of adjustable or shiftable guides or stops; and it has for its object to provide a simple guide which may be shifted along a guideway and set fast therein at any point desired.

In the accompanying drawings, which illustrate an embodiment of the invention, Figure 1 is a plan of the device. Fig. 2 is a side elevation thereof, partly in section. Fig. 3 is a perspective view of the device detached.

In the drawings only so much of the machine to which the guide is applied is shown as will be necessary to illustrate the construction and operation of the latter.

A designates the bed or table of a machine, in which is formed a slot or guideway *a* to receive the body or block of the guide.

1 is a rectangular block which fits in the guideway rather snugly, but freely or loosely, so that it may be moved along the same to the point desired. This block may be clamped fast at any point desired by means which will now be described.

In a recess 2, formed in one end of the block 1, is movably mounted a clamping-plate 3, which has a stem 4, that is slidable in a bore 5 in the end of the block. This stem has on it an inclined shoulder at 6, adapted to be impinged upon by a screw 7, which has a conical tip. This screw is driven down through the top of the block, and its axis is at right angles to the axis of the said stem.

When the block shall have been accurately adjusted to the desired position in the guideway *a*, the screw 7 is driven in, and its point or tip by impinging on the shoulder on the stem 4 forces the clamping-plate 3 out and puts its face into frictional contact with the side wall *a'* of the guideway *a*. This effects the locking of the block in position in the guideway wherever set.

On the block 1 is the guide-plate 8, which projects out over the bed A, its lower edge 8^a bearing thereon and sliding thereover in the adjustment of the block along the slot or guideway. This plate is secured to the face or side of the block by screws, and it may extend out over the bed to any desired extent.

The particular size and relative proportions of the block 1 are not important to my invention, as these may be varied to suit the circumstances and the particular kind of machine to which the invention is applied.

Preferably the edge 8^a of the guide-plate will be parallel with the upper and lower faces of the block and be alined with the upper face thereof. The opposite ends of the block will be faced off square and be parallel with each other.

Having thus described my invention, I claim—

1. A guide comprising a block with squared ends, a clamping-plate occupying a recess in one end of the block and provided with a shouldered stem slidable in the block, a screw with a conical tip set in the block and adapted to engage the shoulder on said stem, and a guide-plate secured to said block and extending out therefrom parallel with the side of the block, substantially as set forth.

2. A guide comprising a block having squared ends parallel with each other, a screw clamping device mounted in said block for securing it in position, and a guide-plate secured to one side or lateral face of said block, the said plate extending out beyond the end of said block and having the lower edge of said extended portion parallel with the upper and lower faces of the block, substantially as set forth.

3. The combination with a bed having a guideway with parallel sides formed therein, of a guide comprising a block with squared, parallel end faces mounted in said guideway, a clamping device carried by said block for securing it fast in the guideway when adjusted, and a guide-plate carried by said block and extending transversely of the guideway, said plate extending out beyond the block and having its lower edge coincident with the surface of said bed, substantially as set forth.

In witness whereof I have hereunto signed my name, this 21st day of April, 1902, in the presence of two subscribing witnesses.

EDWIN B. STIMPSON.

Witnesses:

PETER A. ROSS,

WILLIAM J. FIRTH.