

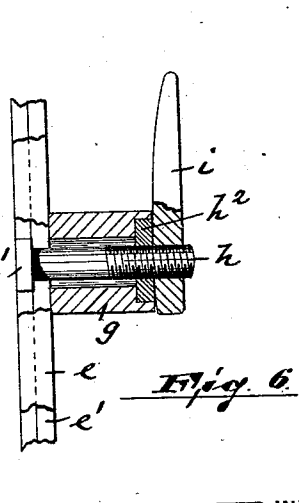
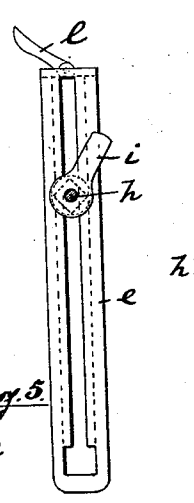
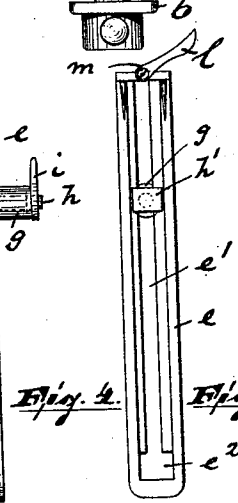
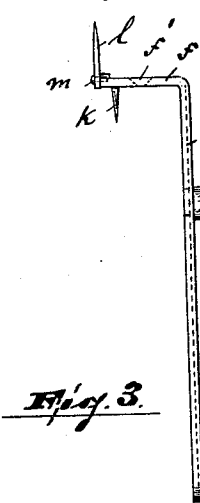
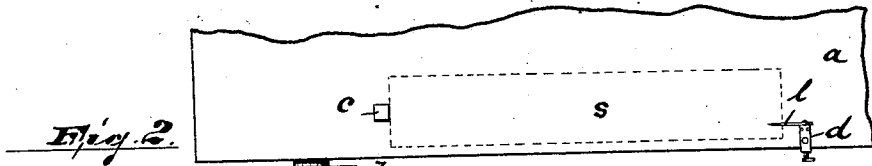
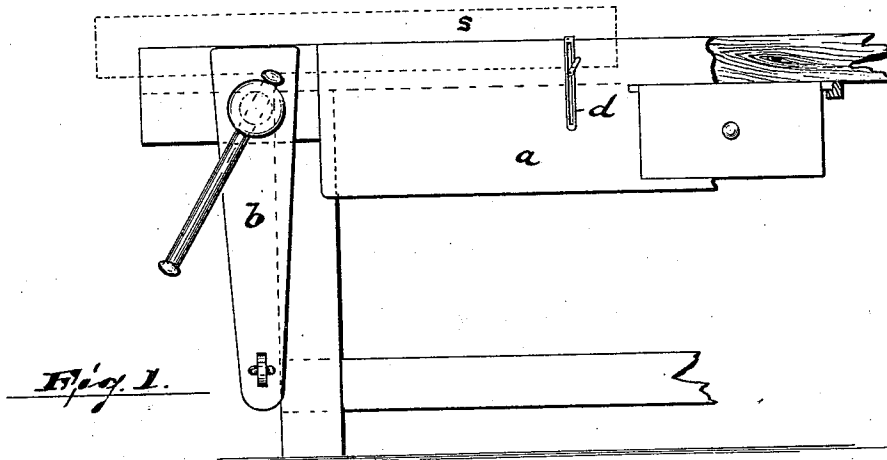
(No Model.)

J. H. FREDERICKS.

COMBINED CARPENTER'S BENCH PIN, GUIDE, AND KNIFE.

No. 521,234.

Patented June 12, 1894.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JACOB HENRY FREDERICKS, OF NEWARK, NEW JERSEY.

COMBINED CARPENTER'S BENCH PIN, GUIDE, AND KNIFE.

SPECIFICATION forming part of Letters Patent No. 521,234, dated June 12, 1894.

Application filed August 28, 1893. Serial No. 484,168. (No model.)

To all whom it may concern:

Be it known that I, JACOB HENRY FREDERICKS, a citizen of the United States, residing at Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in a Combined Carpenter's Bench Pin, Guide, and Knife; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to a new and useful improvement in a combined carpenter's bench pin, guide and knife, and it consists in the combination and arrangement of parts hereinafter more fully described and claimed.

In the drawings Figure 1 is a side elevation of the front end of a carpenter's bench showing the bench vise and the stay pin bracket in position. Fig. 2 is a top plan view of a portion of Fig. 1. Figs. 3, 4 and 5 are respectively a side elevation, a rear view and front view enlarged of my improved stay pin bracket, and Fig. 6 is an enlarged transverse section of a portion of said stay pin bracket.

In the drawings *a* represents a carpenter's bench, *b* the bench vise and *c* a forward stationary stop arranged in the top of the bench in the usual manner.

In the place of the usual stationary rear pins, I have invented a removable stay pin bracket *d*, consisting of two portions *e* and *f* arranged at right angles to each other. The longer portion *e*, which rests against the side of the bench, is slotted as at *e'*. In this slot *e'* moves the bolt *h* provided with a square or otherwise enlarged head *h'*, adapted to confine the bolt *h* in the groove or slot *e'*. Secured on the bolt *h*, if desired, by a nut *h²* is placed a spool or annular collar *g*, and on the end of the said bolt a bracket or guide *i* for the purpose hereinafter described. The portion *f* of the stay pin bracket *d* is parallel with the top of the bench *a* and is provided with one or more pins *k* adapted to secure the bracket *d* firmly to the bench, when the portion *f* is driven down on the top of the same. In the portion *f* may also be drilled a counter-

sunk or other hole *f'*, through which a screw or nail may be passed in order to more firmly secure the bracket *d* to the bench. At the end of the portion *f* is pivotally secured as at *m* a bench knife *l*. The lower end of the slot *e'* terminates in a recess *e²* of a size sufficient to allow the removal of the bolt *h* and its head *h'*.

In operation, when the work to be done consists in planing for instance the edge of a board *s*, the bracket *d* is fastened to the bench at a proper distance from the end thereof, and the board is confined within the vise and between the portion *e* of the bracket and the guide or bracket *i* at the end of the bolt *h*. The lower edge of the board is supported on the spool *g* which is adjusted with its bolt *h* in the slot *e'* of the bracket until it is the required distance below the face of the bench. The spool *g* is of a width corresponding to the thickness of the board *s* and it is manifest that the carpenter may have spools and bolts of any size required, which may be easily placed in the slot *e'* or removed therefrom by passing the head *h'* of the bolt through the enlargement *e²* at the end of the slot *e'*. Where the work to be done consists in planing the face of the board, one end of the board is placed against the stationary stop *c* (see Fig. 2). The bracket *d* is then secured to the bench at the required distance so that it just clears the other end of the board. The bench knife *l* is then pressed into the work and the board is thereby firmly secured to the bench.

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

1. An adjustable and removable stay pin bracket for carpenters' benches, consisting of a slotted angle bracket provided with pins on one arm adapted to enter the face of the bench to support and secure the bracket thereon and a support adapted to be raised or lowered in the slot of said bracket along the side of the bench, and with a bench knife pivotally secured to the arm of the bracket which is secured to the face of the bench substantially as described.

2. In a carpenter's bench an adjustable and removable stay pin bracket consisting of two portions at right angles to each other, one

portion being parallel to the face of the bench and provided with pins adapted to secure said bracket to the face of the bench and also carrying a bench knife which is pivotally secured thereto while the other is parallel to the side of the bench and slotted to receive a removable supporting spool adapted to be adjusted therein, substantially as described.

3. The combination in the bracket *d*, of the slotted portion *e* and portion *f*, with the bolt *h*, spool *g* and lug *i* sliding in the slotted portion *e*, and with the pins *k* and bench knife *l* secured to the portion *f*, substantially as described.

4. The combination in the bracket *d*, of the slotted portion *e* and portion *f* at right angles thereto, with the pins *k* and with a bench knife pivotally secured to the portion *f*, all said parts, substantially as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of April, 1893.

JACOB HENRY FREDERICKS.

Witnesses:

ALFRED GARTNER,
WM. D. BELL.