

H. Gabelmann,

Bench Pin.

No. 102,302

Patented May 10, 1870.

fig:1

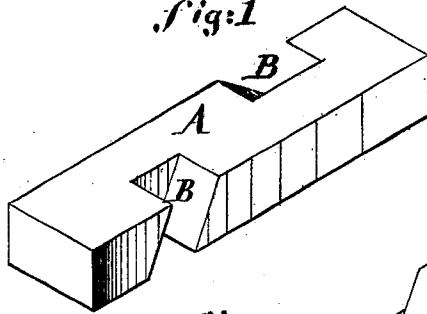


fig:2

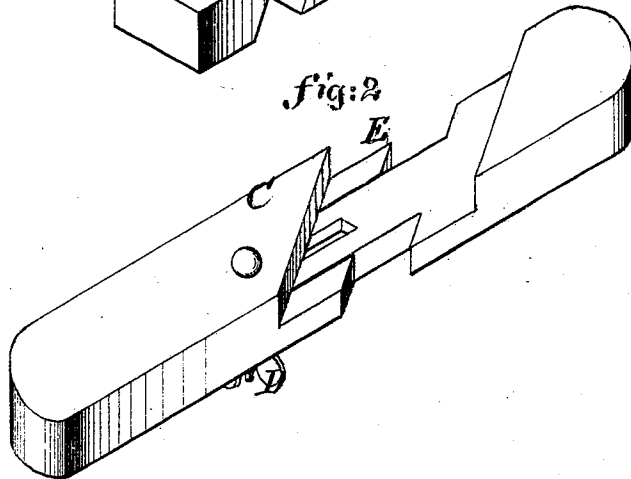
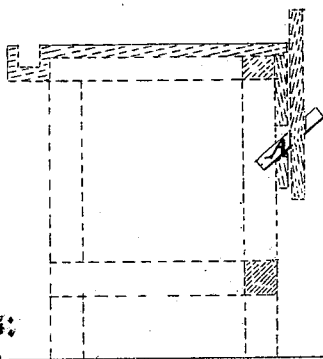


fig:3.



Witnesses:

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HENRY GABELMANN, OF FORT SCOTT, KANSAS.

Letters Patent No. 102,802, dated May 10, 1870.

IMPROVEMENT IN BENCH-PINS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HENRY GABELMANN, of Fort Scott, in the county of Bourbon and State of Kansas, have invented a new and improved Bench-Pin; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in bench-pins for joiners' and cabinet-makers' use to support the boards at the side of the bench for jointing the edges, and consists of blocks of wood or metal with diagonal grooves in the sides or edges adapted for engaging in slots in the sides of the bench, so as to project obliquely therefrom, and hold the rear end of the board in the diagonal slot by the corners of the walls of the slots cramping against the side of the board, one end of which is held in the vise; or, both ends may be held by these pins.

The said pins are more especially intended for wide boards which are too high to joint conveniently when supported on a pin in the common way, at the lower edge. They may be made in two parts, for adjustment on each other, to increase or diminish the breadth of the slot.

Figure 1 is a perspective view of a pin such as I propose to use;

Figure 2 is a perspective view of a pin made adjustable by varying the width of the slot; and

Figure 3 is a cross-section in dotted lines of a joiner's bench, showing the application of my improved pin, the latter being shown in full lines.

Similar letters of reference indicate corresponding parts.

A represents a block or bar of wood or metal with diagonal slots B in the edges, and

C represents a pin made in two parts, the one adjustable on the other, and arranged to be clamped at any point so as to be immovable in respect to each other by a set-screw, D, and nut; both the parts are rebated to form the diagonal slot E between them.

These pins are designed to be placed in slots in the side of the bench, or to rest on a bar running along the bench, so as to project from the side thereof obliquely upward, and take the end of the board not confined in the vise in the diagonal slot, and tilt sufficiently to cramp the side of the board firmly between the corners of the walls of the slots, in a manner to produce sufficient friction to hold the board, the said friction being in proportion to the weight of the board; consequently the greater the weight the more firmly the boards will be held.

The small slots will hold boards of different thicknesses, but it will be convenient in some cases to make them adjustable, as shown in fig. 2.

The slot in the side of the bench should extend the whole length of the bench, so that the pins may be used for boards of any length not extending beyond the rear end of the bench.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The improved bench-pins A or C, provided with the diagonal grooves and adapted for holding the boards at the ends when applied to the bench in a slot in the side thereof, or on a bar along the side, substantially in the manner described.

HENRY GABELMANN.

Witnesses:

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