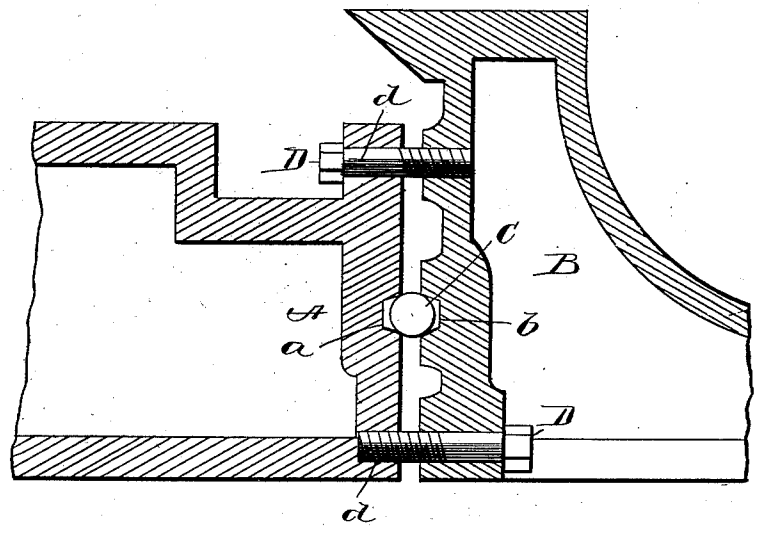
No. 752,714. PATENTED FEB. 23, 1904.

G. H. SMITH.

BED FASTENING FOR HORIZONTAL SPINDLE DRILLING AND BORING MACHINES.

APPLICATION FILED MAY 5, 1903.

NO MODEL.



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Witnesses

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No. 752,714. Patented February 23, 1904.

UNITED STATES PATENT OFFICE.

GEORGE HENRY SMITH, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO THE BEAMAN & SMITH COMPANY, OF PROVIDENCE, RHODE ISLAND, A CORPORATION.

BED-FASTENING FOR HORIZONTAL SPINDLE DRILLING AND BORING MACHINES.

SPECIFICATION forming part of Letters Patent No. 752,714, dated February 23, 1904.

Application filed May 5, 1903. Serial No. 156,132. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HENRY SMITH, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Bed-Fastenings for Horizontal Spindle Drilling and Boring Machines; and I do 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 the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in horizontal spindle drilling and boring machines; and it consists of a means for attaching the platen or work-table to the bed by an adjustable arrangement capable of a rigid fastening, yet designed to allow of slight movement upward or downward at the point where the platen is secured to the bed to bring the platen exactly in line with the spindle when the machine is assembled or as future changes in the machine are necessary, due to the settling of the foundation, or the wear of the parts of the machine may require. The assembled machine ready for work rests upon the floor or foundation prepared for it, to which it is bolted at the outer extremities of the bed and platen.

The operation of my invention will be more clearly seen from the following additional description and the drawing, which is a detail section of the platen and bed of the machine, the parts being cut away.

In the drawing, the letter A represents the platen.

B is the bed of the machine.

a is a groove or recess formed in the side of the platen, and *b* is a similar recess or groove formed in the side of the bed, both being in alinement with each other when the bed and platen are assembled.

C is a round shaft or key made in one or more pieces, which is adapted to rest in the said grooves or recesses *a* and *b*, thereby forming a joint about which the bed and platen take their positions. The bed and platen are each provided with a line of screw-threaded openings *d* at the top and bottom, in which are the screw-threaded bolts D.

The recesses or grooves *a* and *b* and the shaft or key C and the screw-threaded bolts D form a rigid joint or fastening between the bed and platen, which through the loosening of one line of bolts and the tightening of the other line of bolts will cause the bed and platen to assume a new position about the shaft or key C, thus allowing an adjustment of the relative position of the bed and platen to correct any difference in the alinement of the platen A and the spindle of the machine, the spindle being dependent on the bed for its position, while the platen is operated by my device herein described to adjust the work into proper and true position with the spindle.

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

In a machine of the character described, the combination, with the bed and platen, each having a groove formed in its abutting face, a shaft or key secured in said grooves and a series of screws or bolts, one set of bolts being above and the other set below the said shaft or key, whereby the loosening of one set of the screws and the tightening of the others, will adjust the relative position of the platen and bed around said shaft.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE HENRY SMITH.

Witnesses:
ELMER A. BEAMAN,
D. A. BUFFINGTON.