No. 679,408. Patented July 30, 1901.

H. ABBOTT.

ADJUSTABLE BEARING.

(Application filed May 11, 1900.)

(No Model.)

Fig. 1.

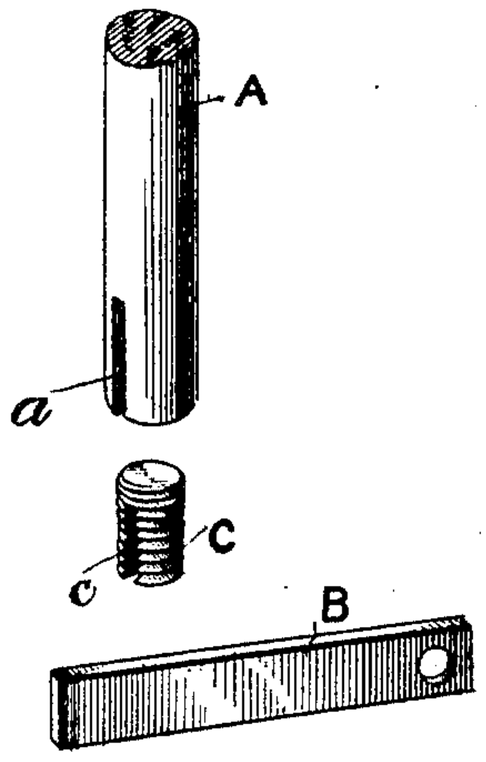

Fig. 2.

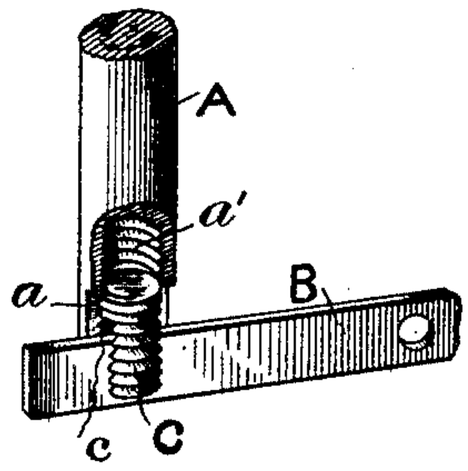

Fig. 3.

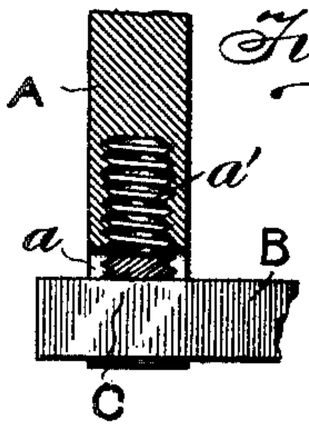

Fig. 4.

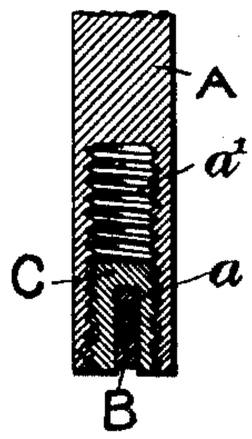

Fig. 5.

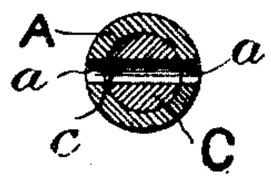

Fig. 6.

Witnesses:
Fenton & Selt,
C. J. Williamson

Inventor:
Henry Abbott, by
Prindle and Russell, his Attys

UNITED STATES PATENT OFFICE.

HENRY ABBOTT, OF NEW YORK, N. Y., ASSIGNOR TO THE CALCULAGRAPH COMPANY, OF SAME PLACE AND EAST ORANGE, NEW JERSEY.

ADJUSTABLE BEARING.

SPECIFICATION forming part of Letters Patent No. 679,408, dated July 30, 1901.

Application filed May 11, 1900. Serial No. 16,360. (No model.)

To all whom it may concern:

Be it known that I, HENRY ABBOTT, of New York city, in the county of New York, and in the State of New York, have invented certain new and useful Improvements in Adjustable Bearings; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the parts of my adjusting mechanism separated from each other. Fig. 2 is a like view of the same when combined, a portion of the wall of the hollow arbor being broken away, so as to show the vertically-movable bearing. Figs. 3 and 4 are respectively vertical central sections of the same upon lines parallel with and at a right angle to the operating-lever; and Figs. 5 and 6 are horizontal sections of said parts and show, respectively, the movable bearing in operative position and when partially rotated for the purpose of effecting vertical adjustment.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is to enable the bearing between a pivoted lever and a long movable stud to be easily changed for the purpose of original adjustment or to compensate for the wear of the bearing-surfaces; and to such end my said invention consists in an adjustable bearing, substantially as and for the purpose hereinafter specified.

While my invention is applicable to many constructions, it is deemed sufficient to illustrate it in connection with a vertically-arranged stud A, which at its lower end impinges upon one end of a horizontal lever B, that is pivoted at or near its center, and at its opposite end is connected with some operative part and is held in normal position by the direct or indirect action of a spring, the arrangement being such that a longitudinally-downward movement of such stud will cause the free end of such lever to be moved in an opposite direction. The lower end of the stud A is slotted transversely and longitudinally to enable it to pass over the lever B, and ordinarily the upper or bearing end of such slot *a* would be formed upon a downwardly-curved line to enable it to maintain a rocking bearing upon the contiguous edge of said lever. In order that the proper adjustment of said parts may be easily effected when assembling the mechanism of which they form a part and to permit of subsequent adjustment to compensate for wear between or of the bearing-surfaces, I provide within the lower end of the stud a longitudinal threaded opening *a'*, which extends above the slot *a* and receives a cylindrical block C, that is threaded exteriorly and adapted to be moved upward or downward within said threaded opening by turning it to the right or to the left.

The block C is provided within its lower end with a transverse slot *c*, which is located centrally and corresponds in width to the slot *a* and extends longitudinally upward a sufficient distance to enable it to contain the lever B, which slots *a* and *c* may be caused to coincide by the turning of said block.

The upper end of the slot *c* of the block C has a downward curve which causes it to have a rocking bearing upon the lever B, and by turning such block upward or downward the proper relative positions of said stud can be readily secured. The least amount of adjustment possible with such construction is effected by rotating said block one-half of a revolution; but by the use of a fine-pitch thread upon the same and within the opening *a* such minimum can be made sufficient for any requirement. It will be seen that said block is positively locked in place by the lever and can only be changed after said lever has been removed from within the slots.

Having thus described my invention, what I claim is—

1. In combination with a pivoted lever, an operating-stud, and a bearing-block which is contained within and capable of adjustment lengthwise of such stud, said stud having surfaces against which bear the sides of the lever, substantially as and for the purpose specified.

2. In combination with an operating-stud, a pivoted lever, said stud bearing upon such lever between its ends, and a bearing-block that is threaded peripherally and fitted within a correspondingly-threaded opening in such

operating-stud, and, by rotation therein, is capable of longitudinal adjustment with reference thereto, said operating-stud having parallel surfaces between which the lever is received and upon which the side of the lever bears, substantially as and for the purpose specified.

3. In combination with a pivoted lever, an operating-stud, a bearing-block that is adapted to be adjusted lengthwise of such stud and is provided at its lower end with a slot which is adapted to receive such pivoted lever, substantially as and for the purpose specified.

4. In combination with a pivoted lever, an operating-stud which at its lower end is slotted to receive the pivoted lever and to operate the same, a block that is adapted to be adjusted lengthwise of such stud and is provided at its lower end with a slot which is adapted to receive such pivoted lever when its said slot is caused to coincide with the slot in said stud, substantially as and for the purpose specified.

5. The combination of the stud provided with the threaded opening and cross-slot within its lower end, the threaded, slotted bearing-block and the lever pivoted at one end, substantially as and for the purpose shown.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of April, A. D. 1900.

HENRY ABBOTT.

Witnesses:
EDWIN A. CURRIER,
EARLE F. CONNET.