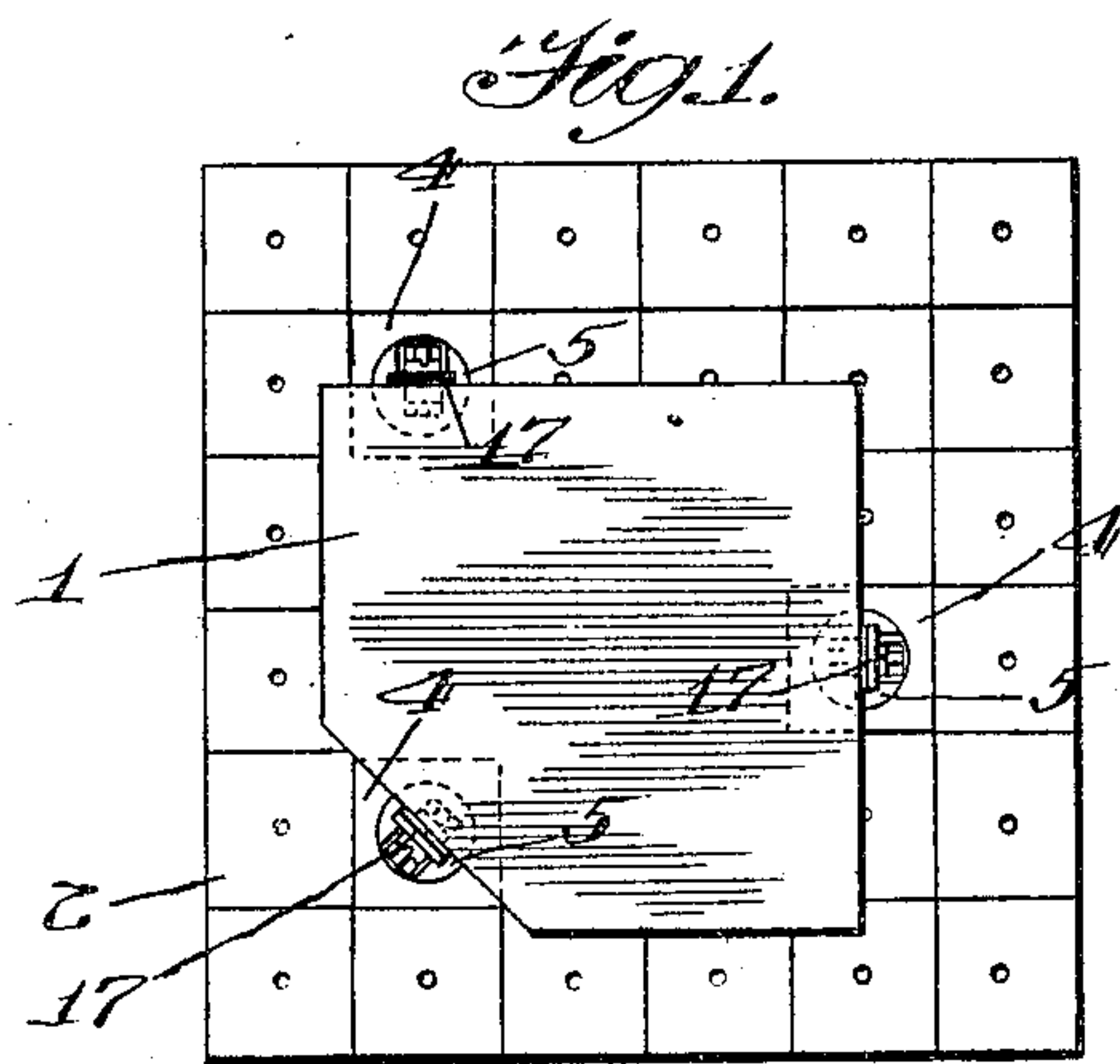


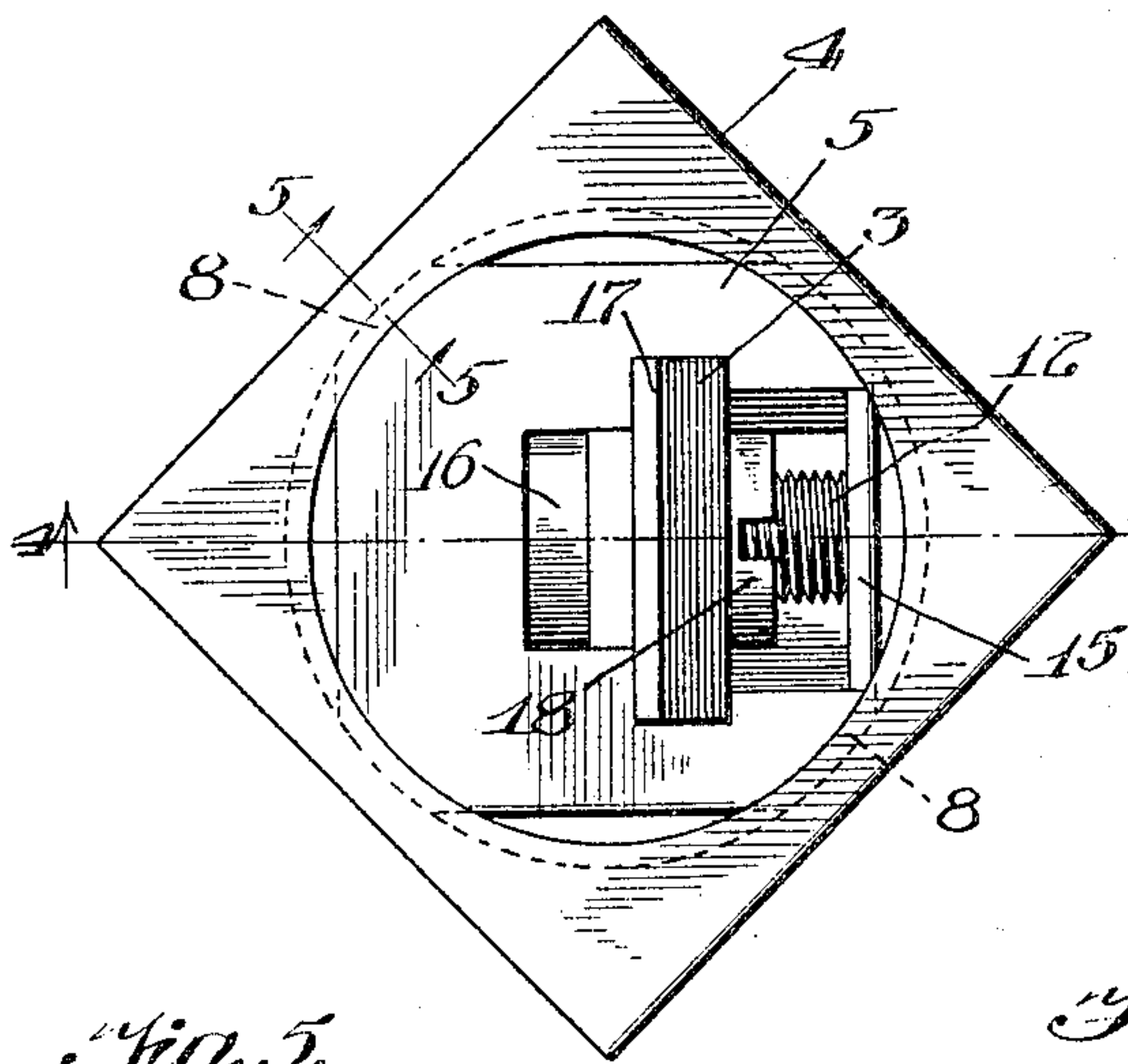
No. 808,663.

PATENTED JAN. 2, 1906.

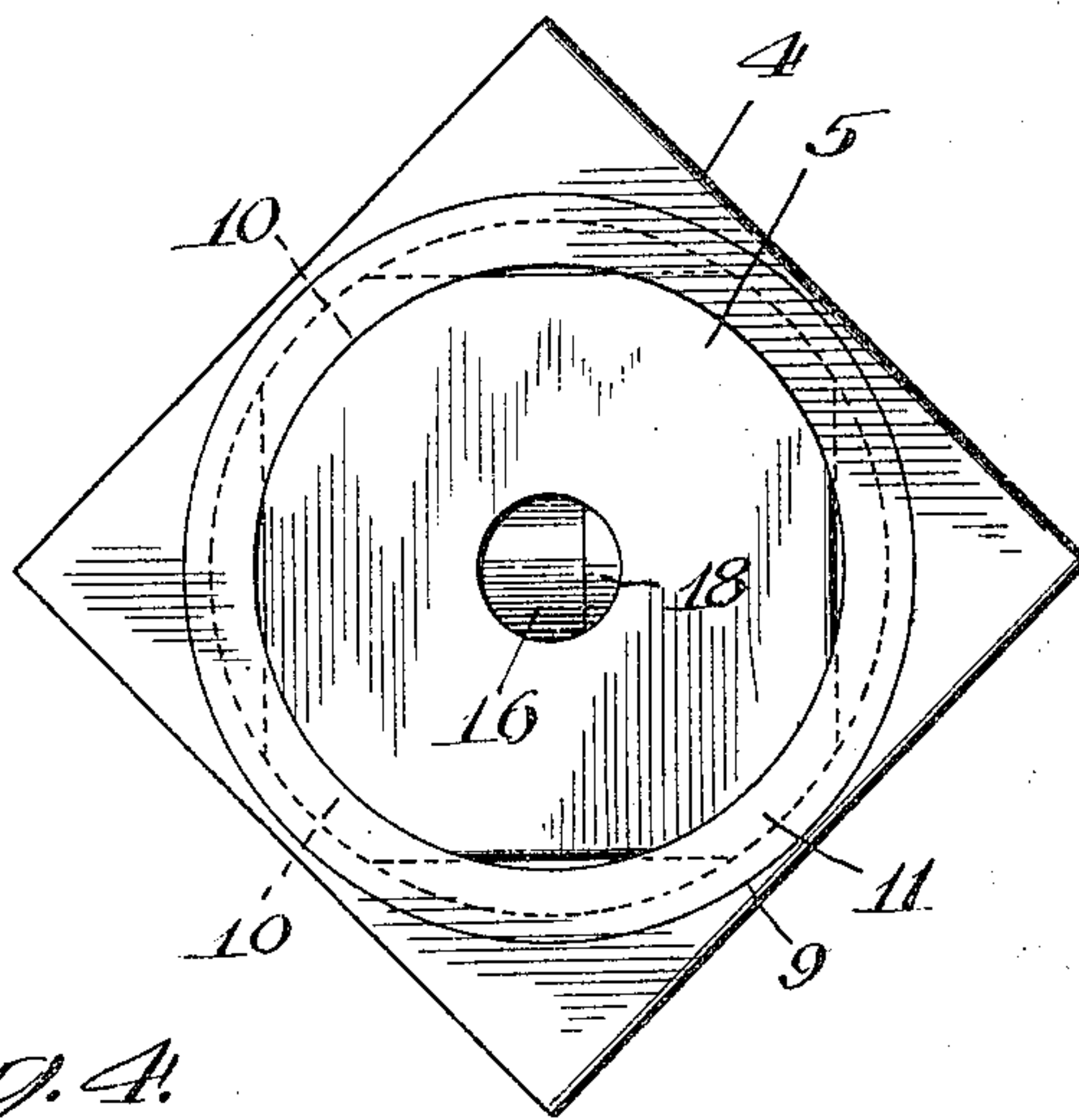
J. E. LEE.  
PRINTER'S REGISTER HOOK.  
APPLICATION FILED NOV. 19, 1904.



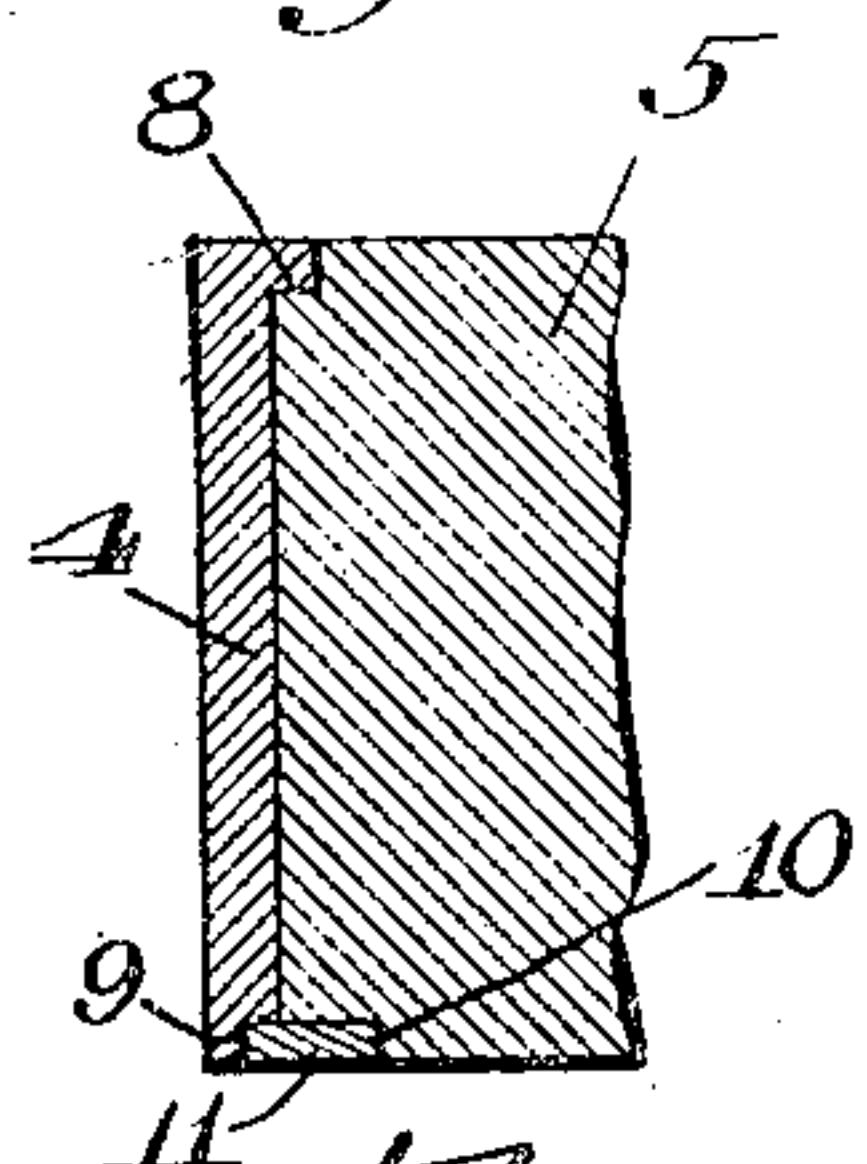
*Fig. 2.*



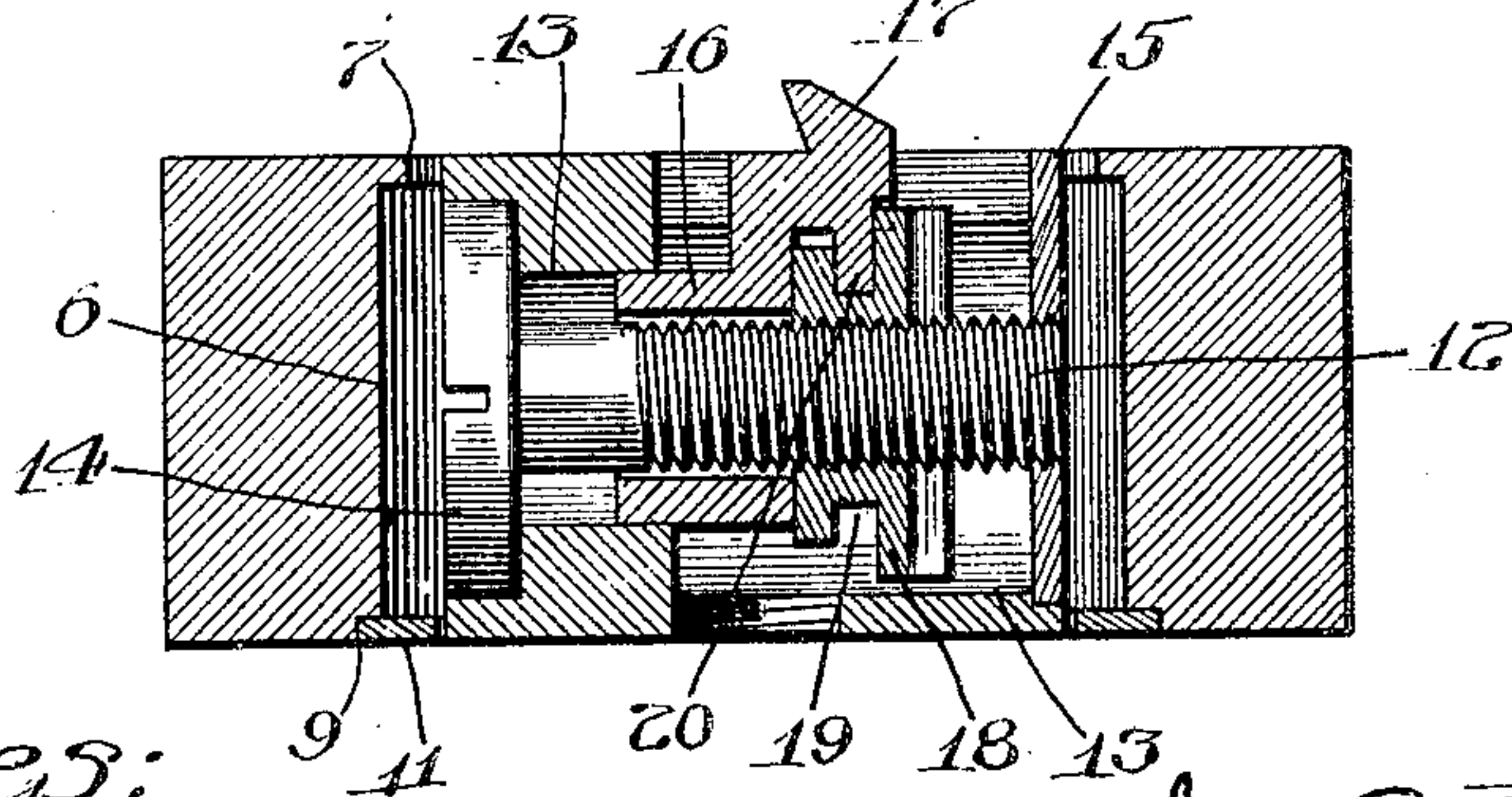
*Fig. 3.*



*Fig. 5.*



*Fig. 4.*



Witnesses:

Robert H. Weir  
Emil C. Wetmann

Inventor:  
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by *Cassatt & Hopkins* attys



# UNITED STATES PATENT OFFICE.

JAMES E. LEE, OF GRAND HAVEN, MICHIGAN.

## PRINTER'S REGISTER-HOOK.

No. 808,663.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed November 19, 1904. Serial No. 233,388.

*To all whom it may concern:*

Be it known that I, JAMES E. LEE, a citizen of the United States, residing at Grand Haven, in the county of Ottawa and State of Michigan, have invented certain new and useful Improvements in Printers' Register-Hooks, of which the following is a full, clear, and exact specification.

My invention relates to devices commonly known as "printers' register-hooks," employed for holding and registering printing-plates, as well as for merely holding or locking the plate when it is not necessary to register or adjust it; and the invention has for its primary object to provide an improved and efficient form of device of this character which shall be capable of readily adapting itself to the edges of plates of irregular shape or to the edge of a plate of regular shape placed in an irregular or diagonal position in the form, so that the hook may be locked in the furniture or form, as usual, while its clutch member may be adjusted at any angle for engaging the edge of the plate contiguous thereto.

With the described ends in view the invention consists in certain features of novelty hereinafter described with reference to the accompanying drawings, and more particularly pointed out in the claims.

In the said drawings, Figure 1 is a plan view of a part of a form, showing the manner of using the invention. Fig. 2 is an enlarged detail plan view of the device. Fig. 3 is a bottom view. Fig. 4 is a vertical section on the line 4 4, Fig. 2; and Fig. 5 is a detail section on the line 5 5, Fig. 2.

In illustrating the invention I have shown it in connection with a printing-plate 1 of an irregular shape or form, having one corner cut off, and with a plate of this or any other irregular shape it will be understood it would be impossible to fit a hook of ordinary form to the side which is out of parallel with the furniture 2 and other sides of the plate without blocking the hook up with special means or furniture cut to fit the irregular spaces between the square sides of the body of the hook and the piece of furniture that runs parallel with the plate. With my invention, however, the clutch member of the hook, which is shown at 3, is rotatable on a vertical axis within a body 4, as well as movable longitudinally, so that it will automatically adjust itself to the edge of the plate, which is out of parallel with the sides of the plate 4 and may be moved back and forth at right angles to such edge for

locking the plate or, if necessary, for registering or adjusting it. It is also understood that the same result would follow and the clutch of each block would automatically adjust itself to the edge of the plate if a plate of regular or irregular shape were arranged diagonally in the form.

The body 4 of the device is in the form of a rectangular block, as usual, or may be of any other suitable regular formation, and the clutch member 3, together with its operating mechanism, whereby it may be advanced or retracted, is or may be of the usual or any suitable form; but for holding and supporting the same a special block or body 5 is provided. This block or body 5 is, in fact, the same as the block or body heretofore provided for the ordinary printer's register-hook, or it may be of any other suitable form; but in any event it is turned round and fitted within a circular recess 6 in the body 4 and is properly journaled therein, so that the entire block or body 5, with the clutch mechanism supported therein, may rotate on a vertical axis. In thus mounting the block or body 5 within the body 4 one end of the recess 6 is formed with an overhanging flange 7, and the contiguous face of the block 5 at the edge is rabbeted, as shown at 8, for receiving the plate 7, and thus making the faces of the two blocks or bodies 4 5 substantially flush. The lower or other end of the recess 6 is formed with a rabbet 9 around the edge thereof and the contiguous edges of the block 5 with a rabbet 10, and into the rabbet 9 is forced a retaining ring or flange 11, which also overlaps the rabbet 10, and thereby holds the block 5 in place, but without undue friction against the latter, so that it may be easily rotated.

The clutch member 3 and its operating mechanism need not be different from that which has heretofore been employed. In the exemplification shown in the drawings the block 5 has a screw 12 rigidly mounted in a suitable recess 13 therein, one end of the screw being formed with an enlarged head 14, while the other end is screwed into a plate 15, which is countersunk in the end of the recess 13, thus firmly holding the screw and preventing it from rotating, owing to the increased friction of the enlarged head 14. Mounted to slide loosely over the screw is a sleeve 16, which carries the clutch member 17, while threaded on the screw is a nut 18, having a groove 19, in which engages a yoke 20, depending from the under side of the clutch



17, so that as the nut is rotated the clutch will be advanced or retracted in a longitudinal direction.

5 With a printer's register-hook thus constructed it will be seen that I not only attain the ends and objects before described, but a register-hook of the usual or common square form may be readily turned down and fitted into the circular recess of the body portion 4, 10 and thereby converted into an adjustable hook of this character, while, on the other hand, if it should be desirable for any reason where the adjustable or swiveled feature of the hook is not required to use the interior body 5 alone 15 it may be extracted for that purpose.

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

20 1. In a printer's register-hook, the combination of a body or block, a second block rotatable in said first block on a vertical axis, and a clutch member mounted on and mov-

able in said second block in a longitudinal direction.

2. In a printer's register-hook, the combination of a body or block having a recess therein provided with a flange at one end, a second block journaled in said recess and having a rabbet at one edge receiving said flange, a ring secured in the opposite end of the recess engaging and holding said second block, and a clutch device mounted on said second block and movable longitudinally. 25 30

3. In a printer's register-hook, the combination of a body or block having a recess, a second block journaled in said recess and having its faces flush with the faces of said first block respectively, and a clutch device mounted in said second block and movable longitudinally. 35

JAMES E. LEE.

Witnesses:

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H. Z. NYLAND.