

No. 744,616.

PATENTED NOV. 17, 1903.

H. J. RIEDEL.  
RAM FOR HYDRAULIC JACKS.

APPLICATION FILED MAY 29, 1903.

NO MODEL.

Fig. 8.

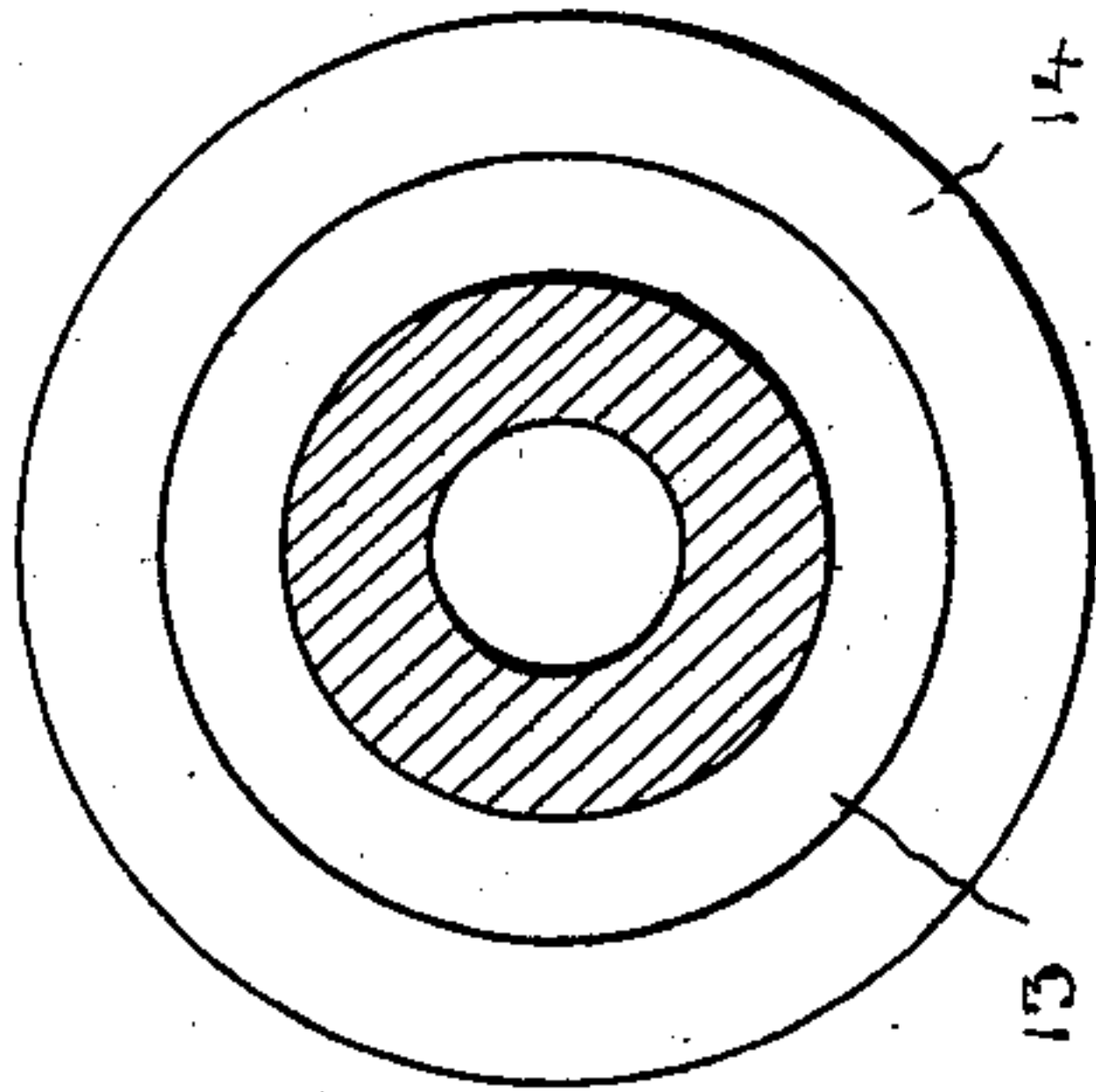


Fig. 6.

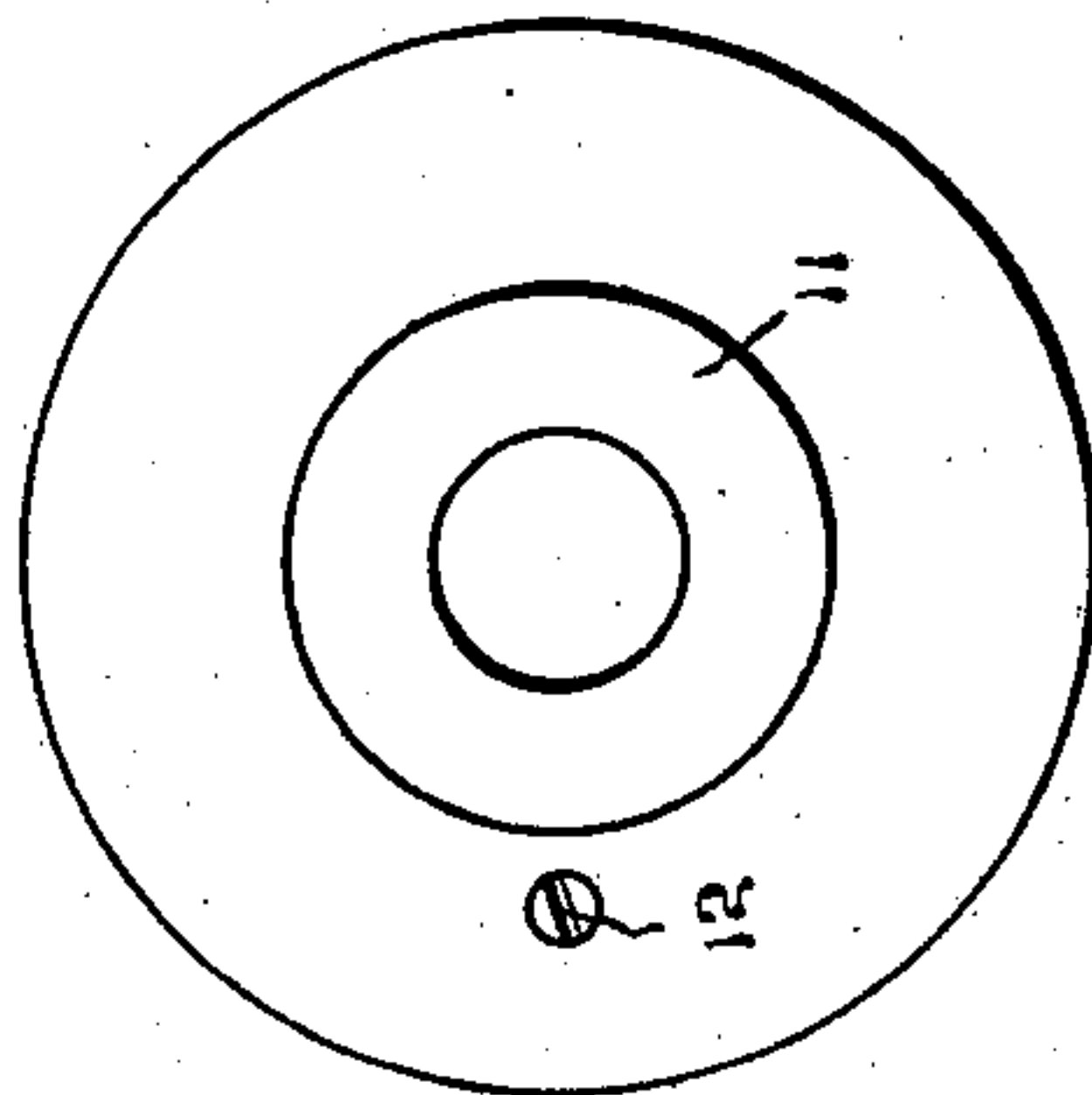


Fig. 4.

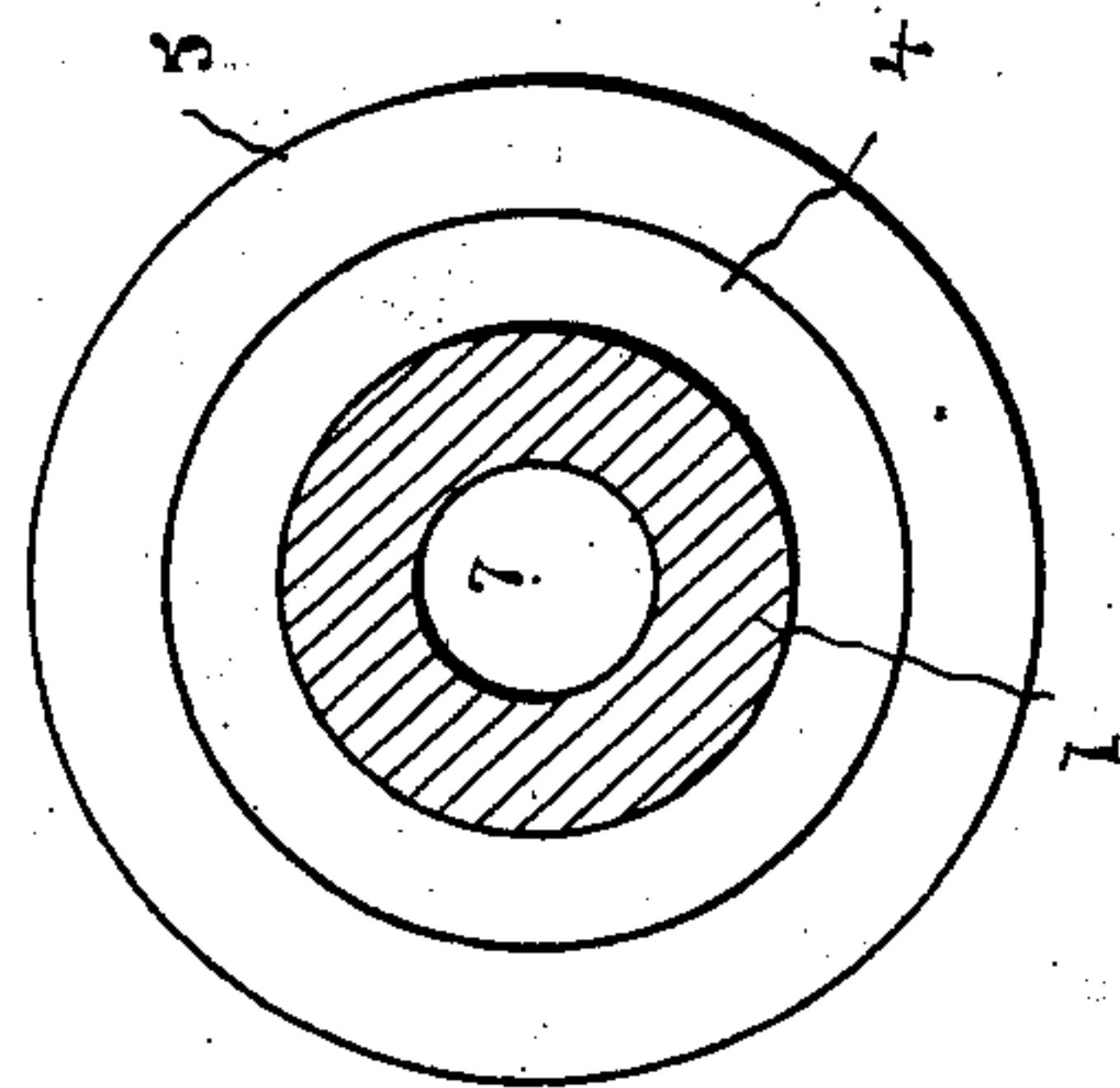


Fig. 2.

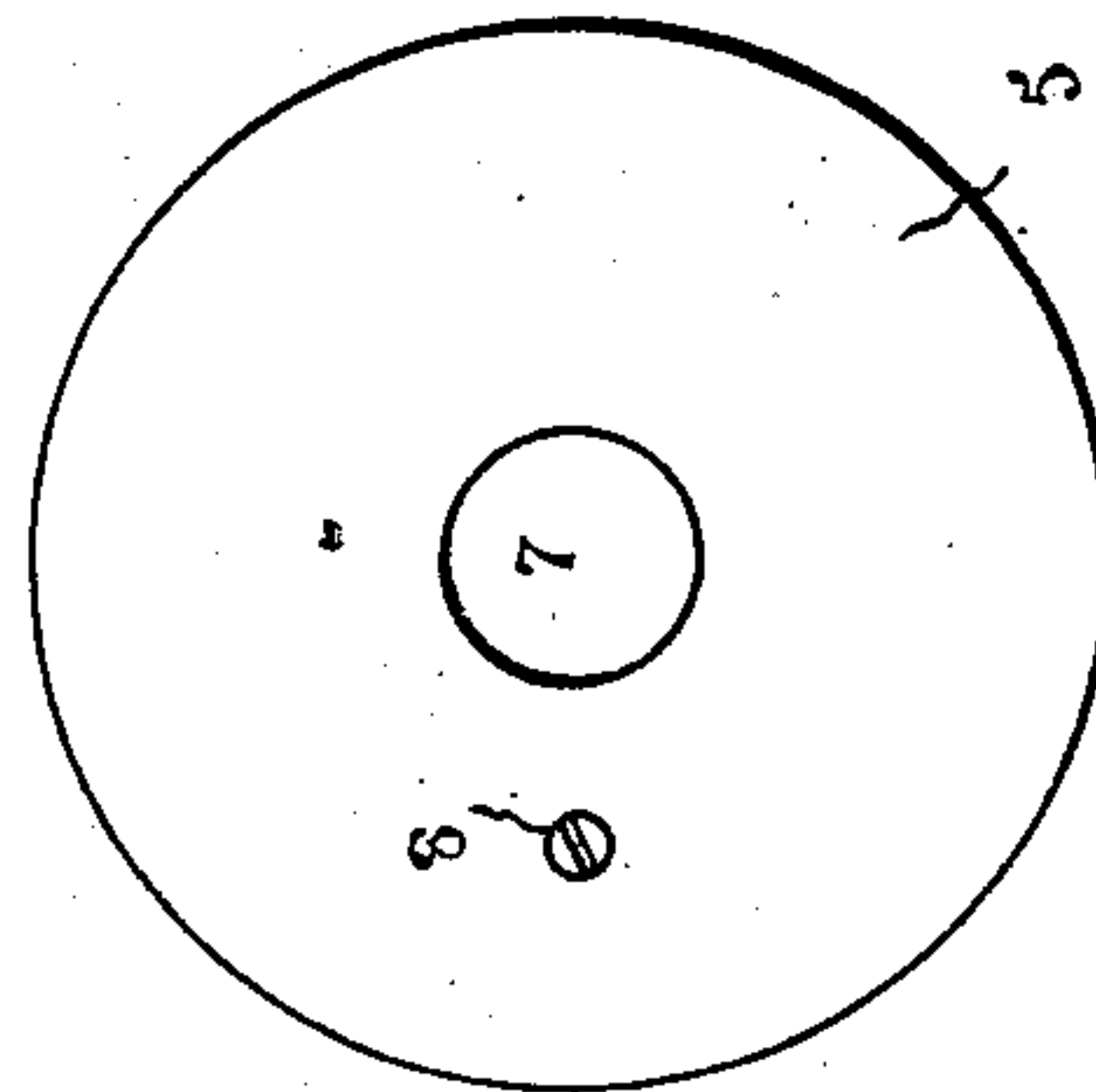


Fig. 7.

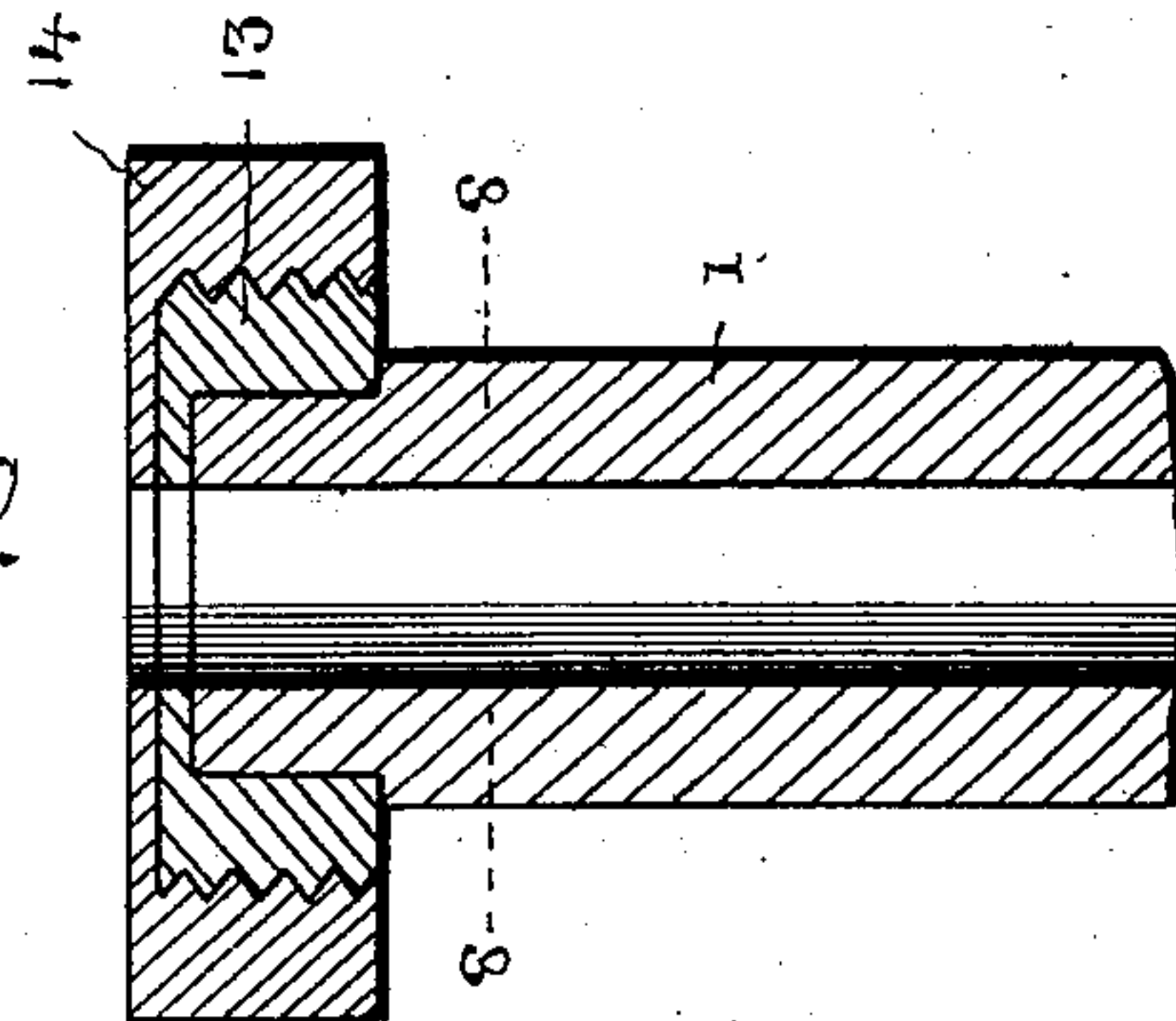


Fig. 5.

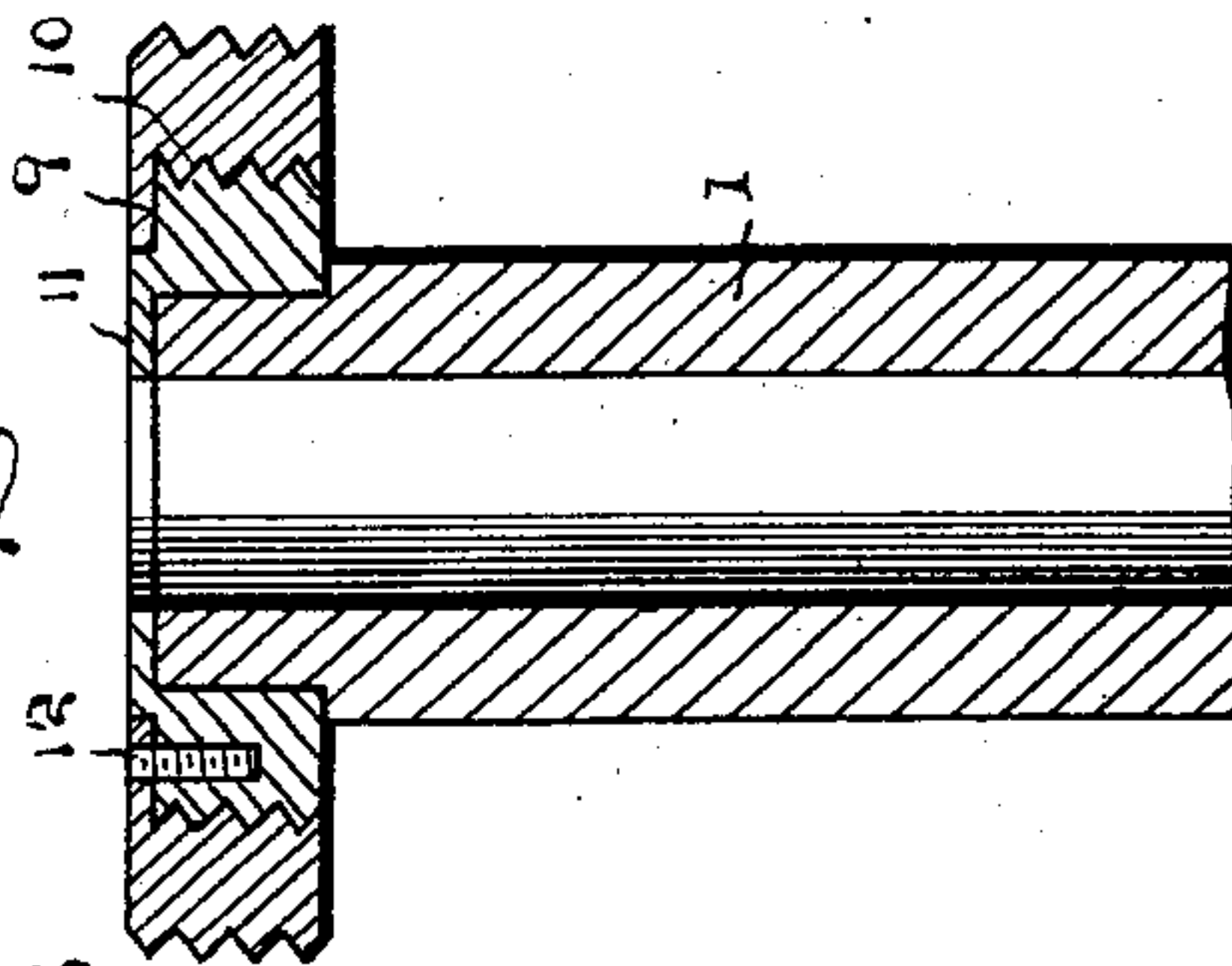


Fig. 3.

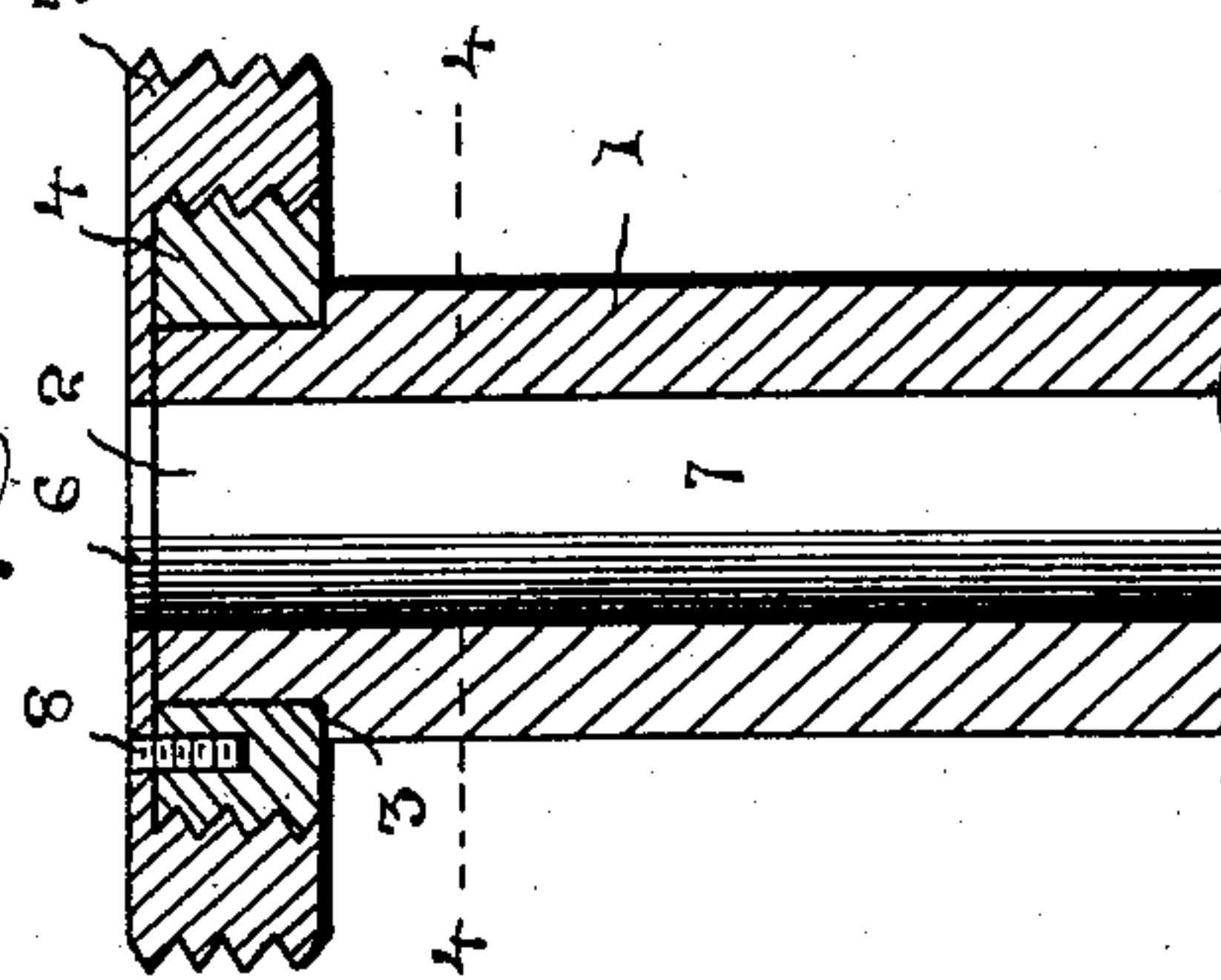
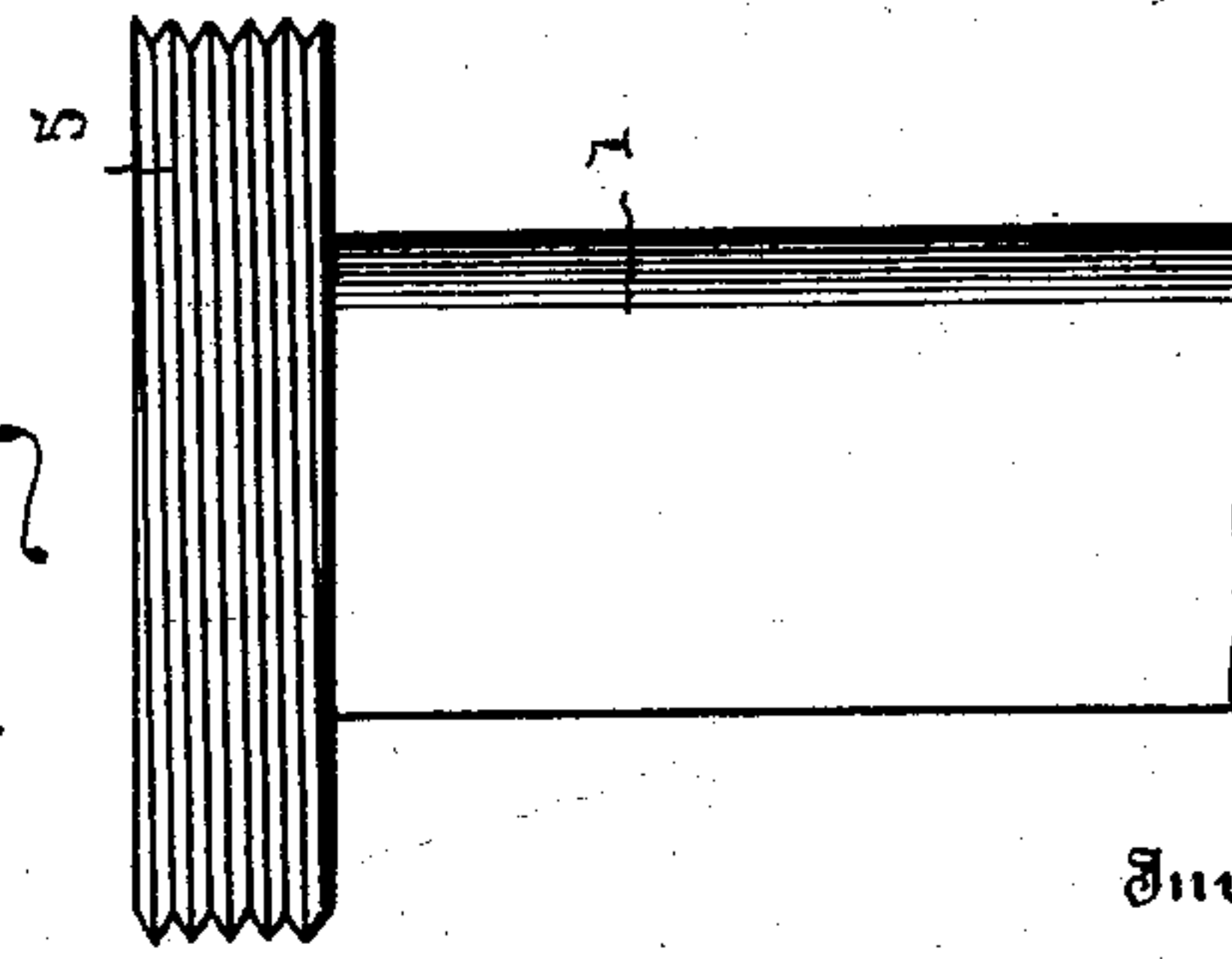


Fig. 1.



Witnesses

*James D. Riedel*  
*Hubert D. Lawson*

Inventor

*Henry J. Riedel*

By

*Victor J. Evans*  
Attorney



# UNITED STATES PATENT OFFICE.

HENRY J. RIEDEL, OF BROOKLYN, NEW YORK.

## RAM FOR HYDRAULIC JACKS.

SPECIFICATION forming part of Letters Patent No. 744,616, dated November 17, 1903.

Application filed May 29, 1903. Serial No. 159,333. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY J. RIEDEL, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Rams for Hydraulic Jacks, of which the following is a specification.

This invention relates to new and useful improvements in rams for hydraulic jacks; and its object is to provide a separate base or claw collar for a ram, which may be securely fastened to the ram in any preferred manner. It has been customary heretofore to weld the collars upon the rams, thereby necessitating the expenditure of a considerable amount of time and labor as well as rendering the operation quite costly.

One of the objects of my invention is to so construct the rams and collars as to permit said collars to be readily placed in position, so as to reduce to the minimum the time expended during this operation.

With the above and other objects in view the invention consists in the novel construction and arrangement of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a section of a ram, showing an externally-threaded collar thereon. Fig. 2 is a plan view thereof. Fig. 3 is a vertical section. Fig. 4 is a section on line 4 4, Fig. 3. Fig. 5 is a vertical section through a ram, showing a modified form of claw-collar in position thereon. Fig. 6 is a plan view thereof. Fig. 7 is a vertical section showing base and claw collars upon a ram, and Fig. 8 is a section on line 8 8, Fig. 7.

Referring to the figures by numerals of reference, 1 is a tubular ram one end of which is reduced in diameter, as shown at 2, and forms a shoulder 3. This shoulder supports a base-collar 4, which is externally screw-threaded, and is shrunk or otherwise secured to the reduced end of the ram. An internally and externally screw-threaded claw-collar 5 receives and engages the base-collar 4 and is adapted to overlap the reduced end of the ram 1 and has an aperture 6 therein, which registers with the passage 7 through the ram 1. A screw 8 may be inserted into

the two collars, so as to bind them together and prevent independent movement thereof.

In lieu of extending the claw-collar over the end of the ram 1 it may overlap the reduced end 9 of a base-collar 10, as shown in Fig. 5, and this base-collar may have an inwardly-extending flange 11 at the reduced end thereof, which may overlap the end of the ram. A screw 12 is also employed in this construction for binding the two collars together.

Another modification has been illustrated in Figs. 7 and 8. In this construction the base-collar 13 is shrunk in any suitable manner to the reduced end of the ram, and the claw-collar 14 is screwed thereon. It will of course be understood that the various collars can be secured in any desired manner to the rams. By constructing rams in the manner herein described the collars can be quickly attached thereto, and by employing the construction illustrated in Fig. 7 a ram provided with a base-collar can be quickly supplied with a claw-collar.

It will be understood from the foregoing that when it is desired to place a new collar upon the ram it is merely necessary to trim the old one and secure a new collar in position thereover. This obviates the necessity of forging the collar upon the ram, as has been the common practice heretofore.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as may fairly fall within the scope of my invention.

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

1. A hydraulic ram having a reduced end forming a shoulder, a base-collar inclosing said end and bearing upon the shoulder, and a claw-collar extending over and engaging the base-collar.

2. A ram having a reduced end forming a shoulder, a base-collar separate from but secured to the reduced end and mounted on

the shoulder, a claw-collar upon and connected to the base-collar and means for preventing independent movement of the collars.

3. A ram having a reduced end forming a  
5 shoulder, an externally-threaded base-collar mounted upon and secured to said end and having a reduced portion, an inwardly-extending flange to the reduced portion overlapping the end of the ram, a claw-collar extending over and engaging the base-collar,  
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an inwardly-extending flange thereto extending into the reduced end of the base-collar, and means for preventing independent movement of the collar.

In testimony whereof I affix my signature 15  
in presence of two witnesses.

HENRY J. RIEDEL.

Witnesses:

HENRY W. KOHLMEIER,  
WM. F. HARTLEY.