

(No Model.)

2 Sheets—Sheet 1.

D. A. DECROW.
HYDRANT.

No. 505,596.

Patented Sept. 26, 1893.

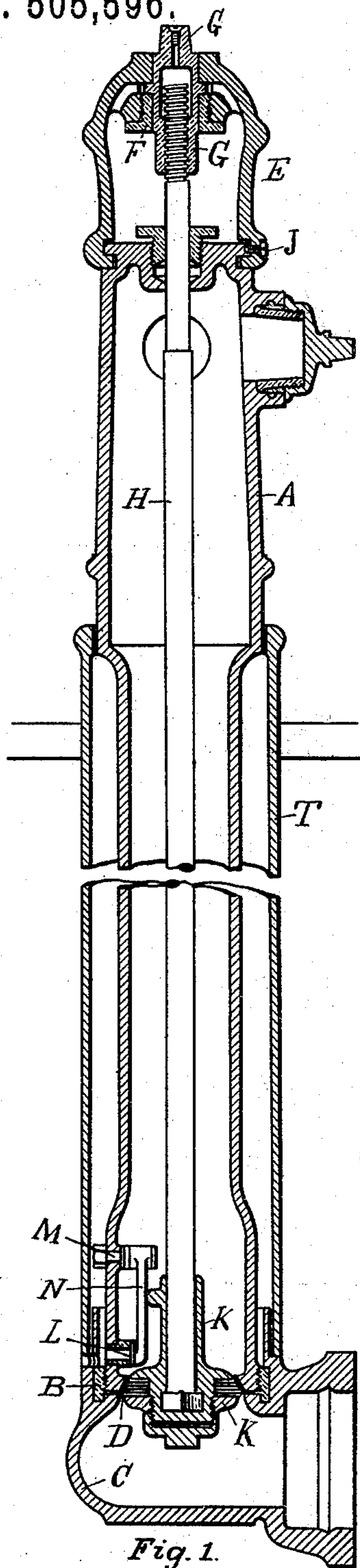


Fig. 1.

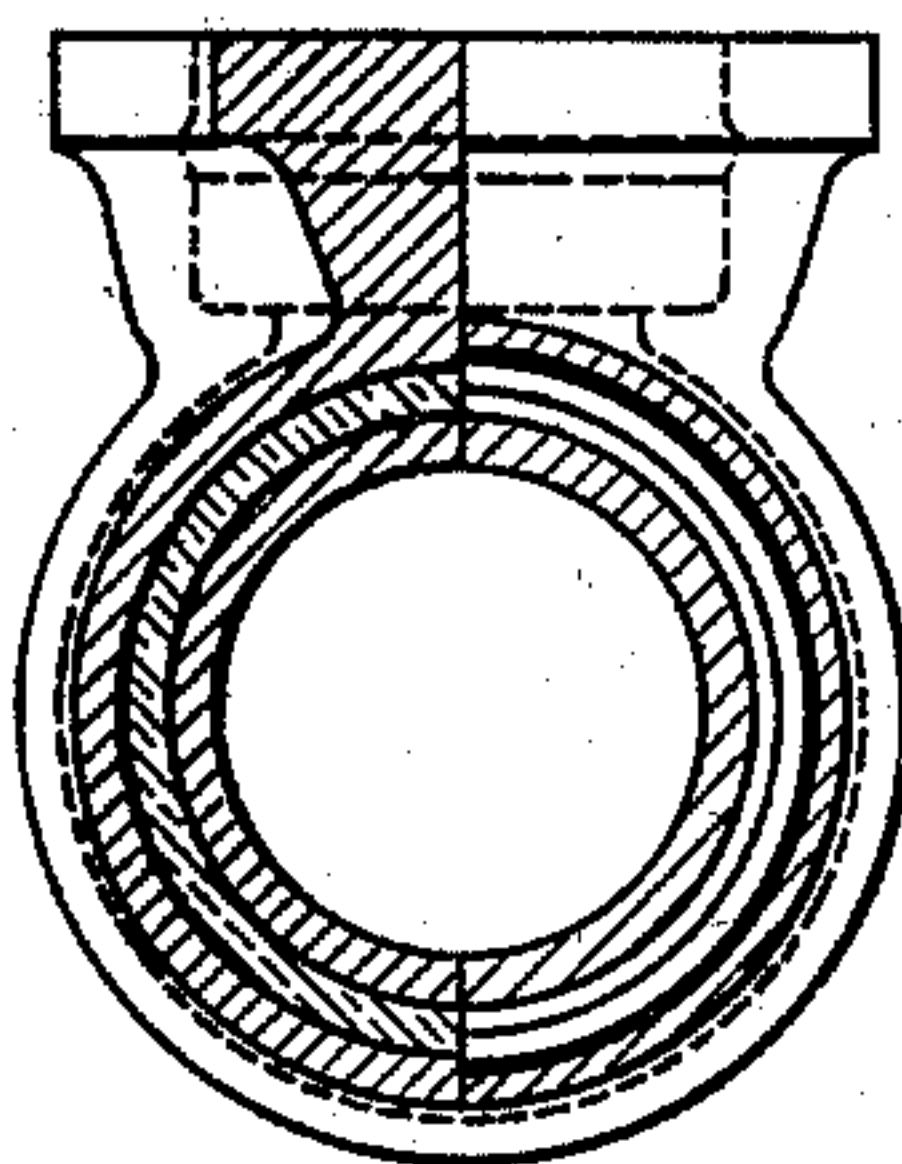


Fig. 3.

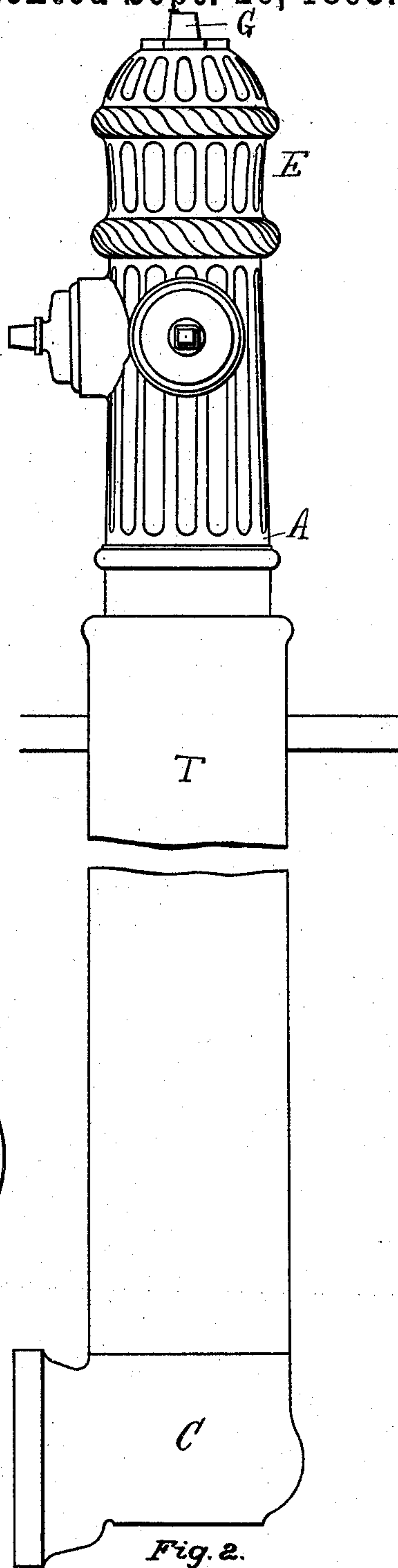


Fig. 2.

Witnesses.

Ralph Van Dyke.
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David A. Decrow
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(No Model.)

2 Sheets—Sheet 2.

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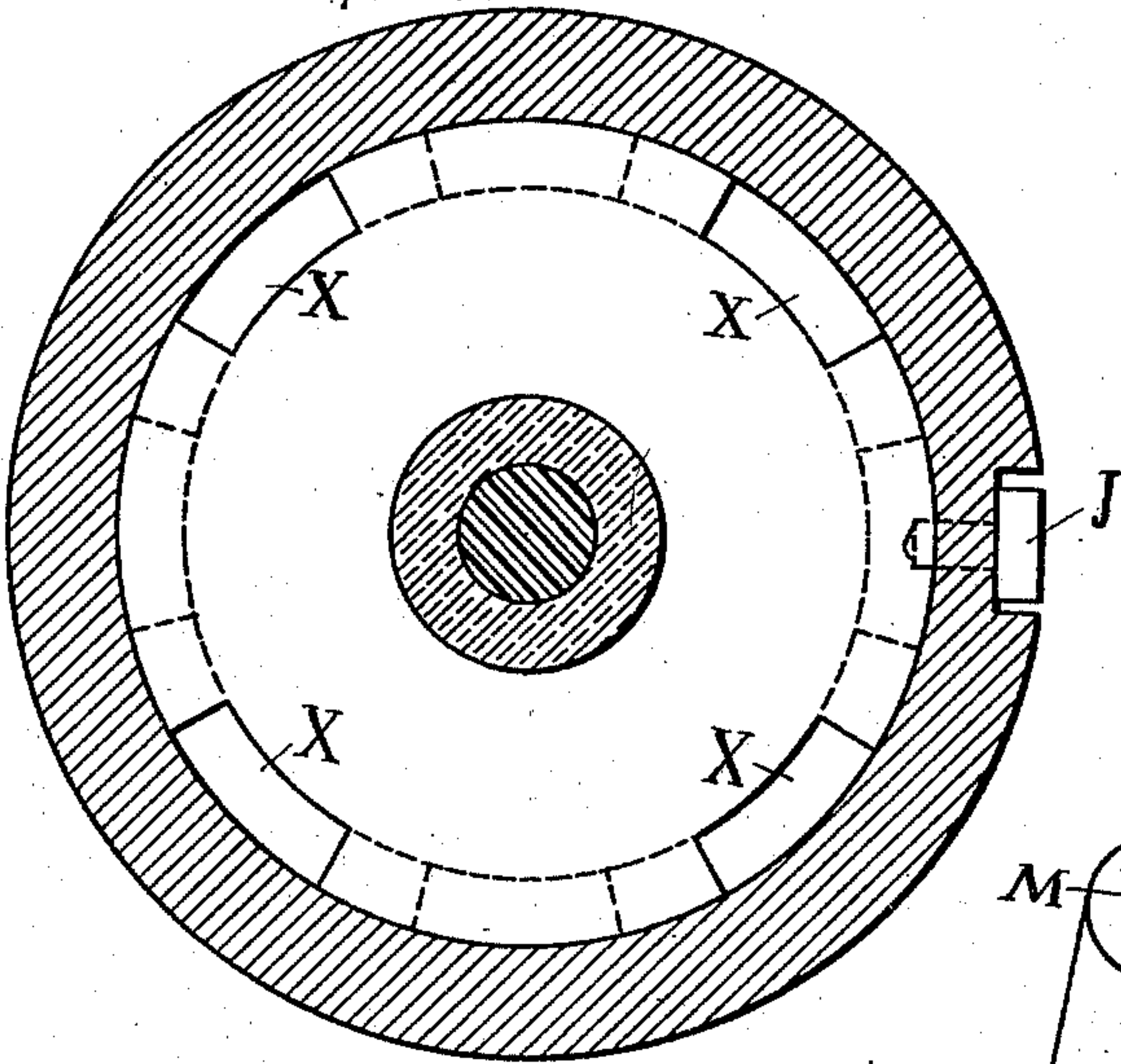


Fig. 4.

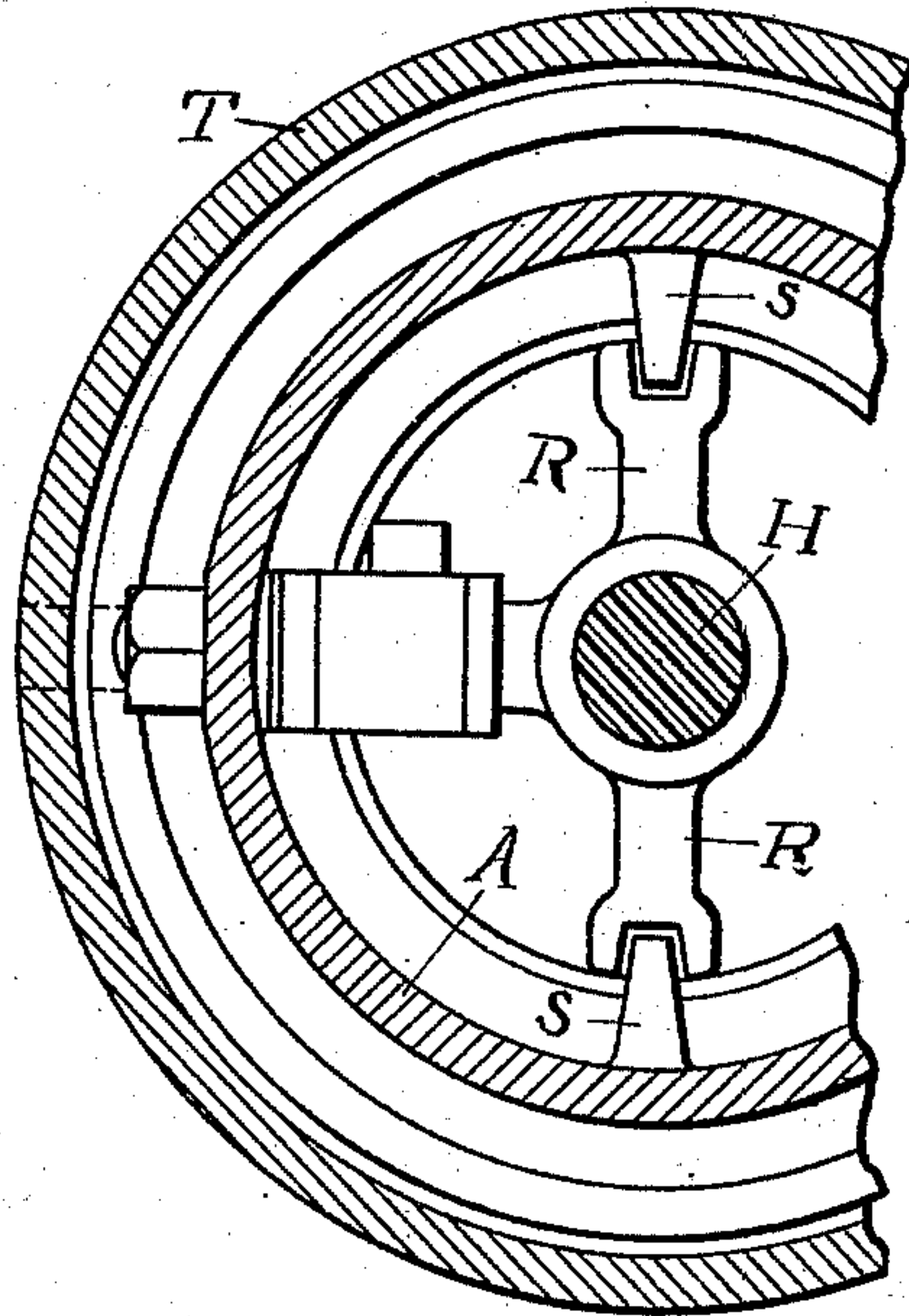


Fig. 6.

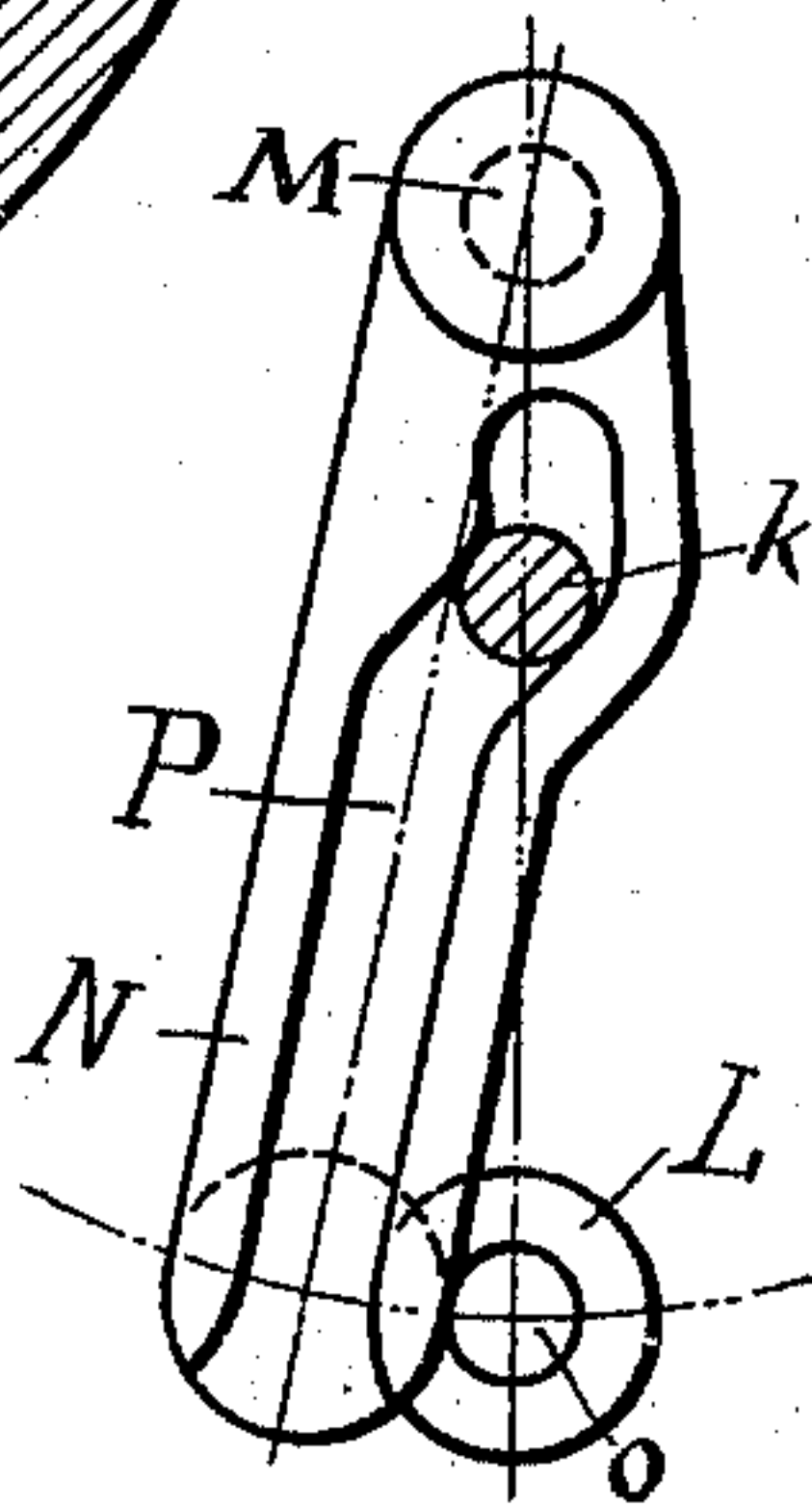


Fig. 8.

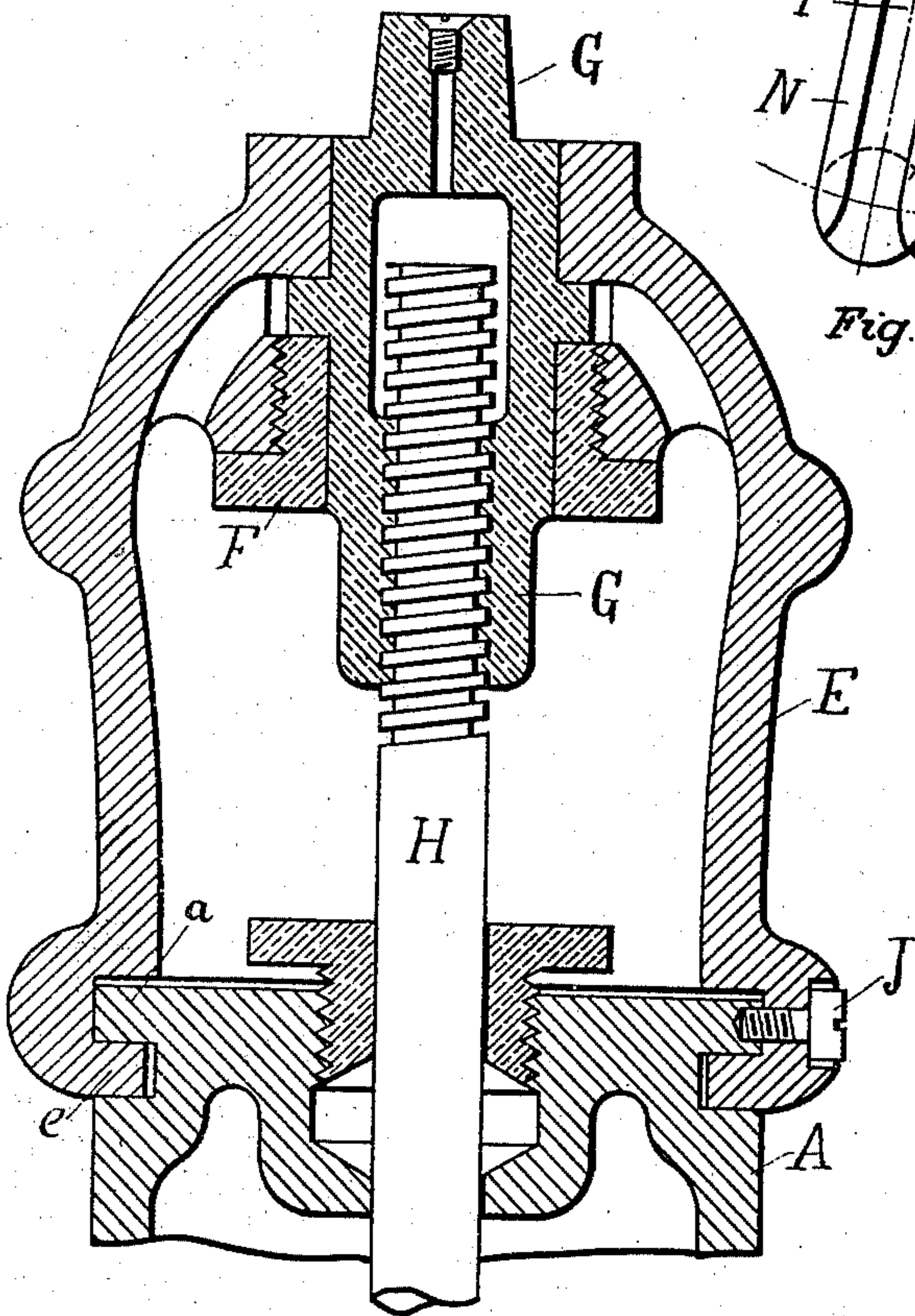


Fig. 5.

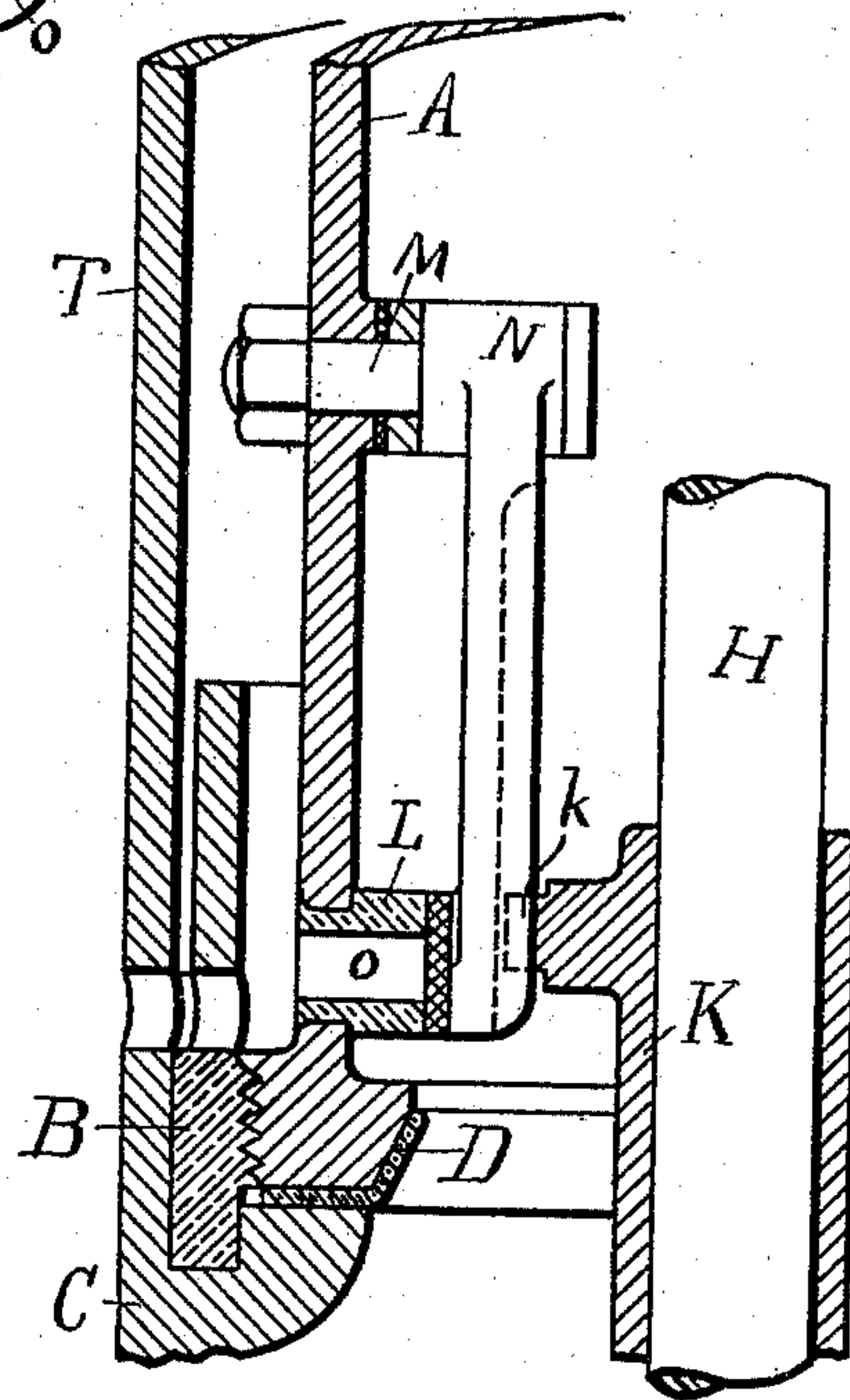


Fig. 7.

Witnesses.

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UNITED STATES PATENT OFFICE.

DAVID A. DECROW, OF LOCKPORT, NEW YORK.

HYDRANT.

SPECIFICATION forming part of Letters Patent No. 505,596, dated September 26, 1893.

Application filed August 25, 1892. Serial No. 444,123. (No model.)

To all whom it may concern:

Be it known that I, DAVID A. DECROW, a citizen of the United States, residing in the city of Lockport, county of Niagara, State of New York, have invented certain new and useful Improvements in Hydrants, fully described and represented in the following specification and the accompanying drawings, forming a part of the same, in which—
Figure 1 is a diametrical section through the improved hydrant, showing the main valve closed. Fig. 2 is an outside elevation of the improved hydrant. Fig. 3 is a half cross section through the hydrant case and main body, and through the upper portion of hydrant base. Fig. 4 is a cross section through the top of hydrant just above main body of the hydrant. Fig. 5 is a diametrical section of the top of the hydrant and the upper portion of the main body. Fig. 6 is a part cross section of the hydrant at the point A in Fig. 7. Fig. 7 is a diametrical part section of hydrant showing drip valve, main valve seat and composition metallic ring cast into hydrant base. Fig. 8 shows drip valve and seat for hydrant open.

This invention relates to certain improvements on hydrants wherein the water is conducted from a base through a valve opening to the main body of the hydrant, from which the water is drawn; and wherein a valve, operated by a stem or rod, is located at the lower end of main body of hydrant for closing the opening between the base and main body, as hereinafter described and claimed.

In the accompanying drawings—A represents main body of hydrant, and B non-corrosive metallic ring case in base of hydrant C.

The pressed copper valve seat is shown at D.

E is the top of hydrant.

F is the gland inserted into lower side of top for holding top nut G in place.

H is the stem for operating main valve K of hydrant, said stem having its lower end squared as shown in Fig. 1, and cast into the head of the main valve.

L is the seat of drip valve N which is opened when the main valve is closed, and

vice versa, as follows: The drip valve N swings on the pivot M and is actuated by the movement of the projection *k*, on the main valve head K, in the cam slide P in the back of the drip valve N. When the main valve K is closed (as shown in Fig. 1) the drip valve N is open (as shown in Fig. 8), O being the opening in drip valve seat L. The main valve opens down, carrying with it the projection *k*, in the slide P. By the peculiar form of the slide P, a downward movement of the projection *k* throws the drip valve N over and covering the opening O. The main valve K is prevented from revolving, and guided by the arms R (Fig. 6) sliding on the guides S, cast on the inside of the main body of the hydrant A.

a is the interrupted flange at upper end of the main body of hydrant, in which are the spaces X X X X of any convenient number, into which the projections of the interrupted flange *e* fit, and by turning the top E a portion of a revolution and setting up the screw J the top is securely fastened to the main body A.

The frost case T may or may not be used, but is not claimed as a part of this invention.

Having thus described my invention, I claim—

1. In combination with base C and a ring B secured thereto, a body A, engaging the ring and a combined copper packing and valve-seat-plate D, secured between the body and base, substantially as shown and described.

2. In a hydrant, the combination with the top portion E having a hole or opening in its top; of a nut G journaled in the hole or opening and provided below said hole with a peripheral flange or collar; a valve stem H screwing into the lower end of the nut; and an externally-threaded packing-gland F inserted into the top portion from the inside, and bearing at its upper end upon the nut-flange, all substantially as shown and described; whereby the gland makes not only a tight packing, but also holds the nut in place.

3. In combination with body A having
opening *o*; a laterally swinging valve N piv-
oted in the body portion A to close the open-
ing and provided with a cam groove P; and
5 the longitudinally reciprocating valve head
provided with a stud *k* to enter the groove.

In testimony whereof I hereunto affix my

signature, at Lockport, New York, July 27,
1892, in the presence of two witnesses.

DAVID A. DECROW.

Witnesses:

A. L. DAVISON,

J. BROOKS GILBERT.