

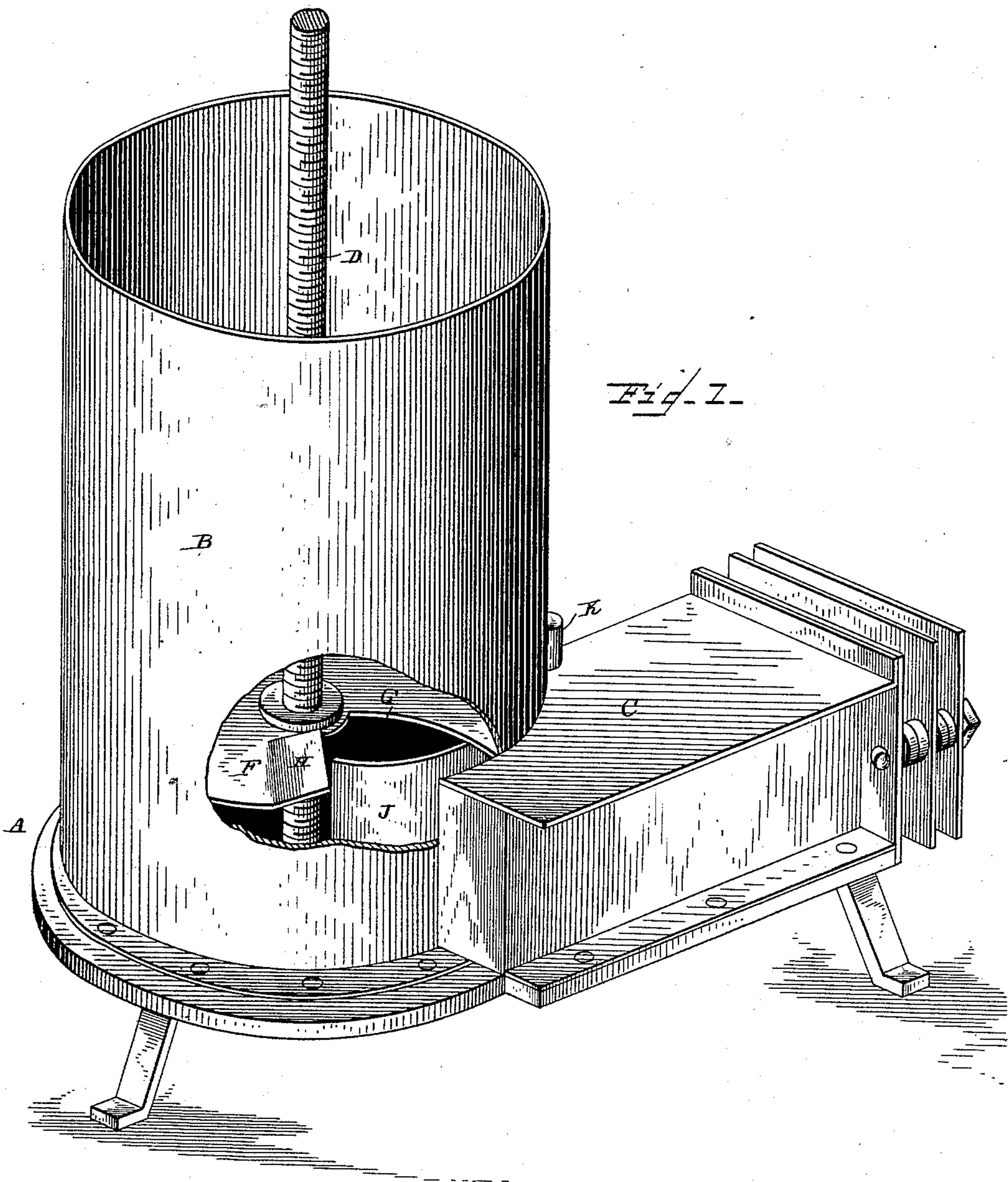
(No Model.)

2 Sheets—Sheet 1.

J. REICHELT.  
PUG MILL.

No. 426,470.

Patented Apr. 29, 1890.



WITNESSES

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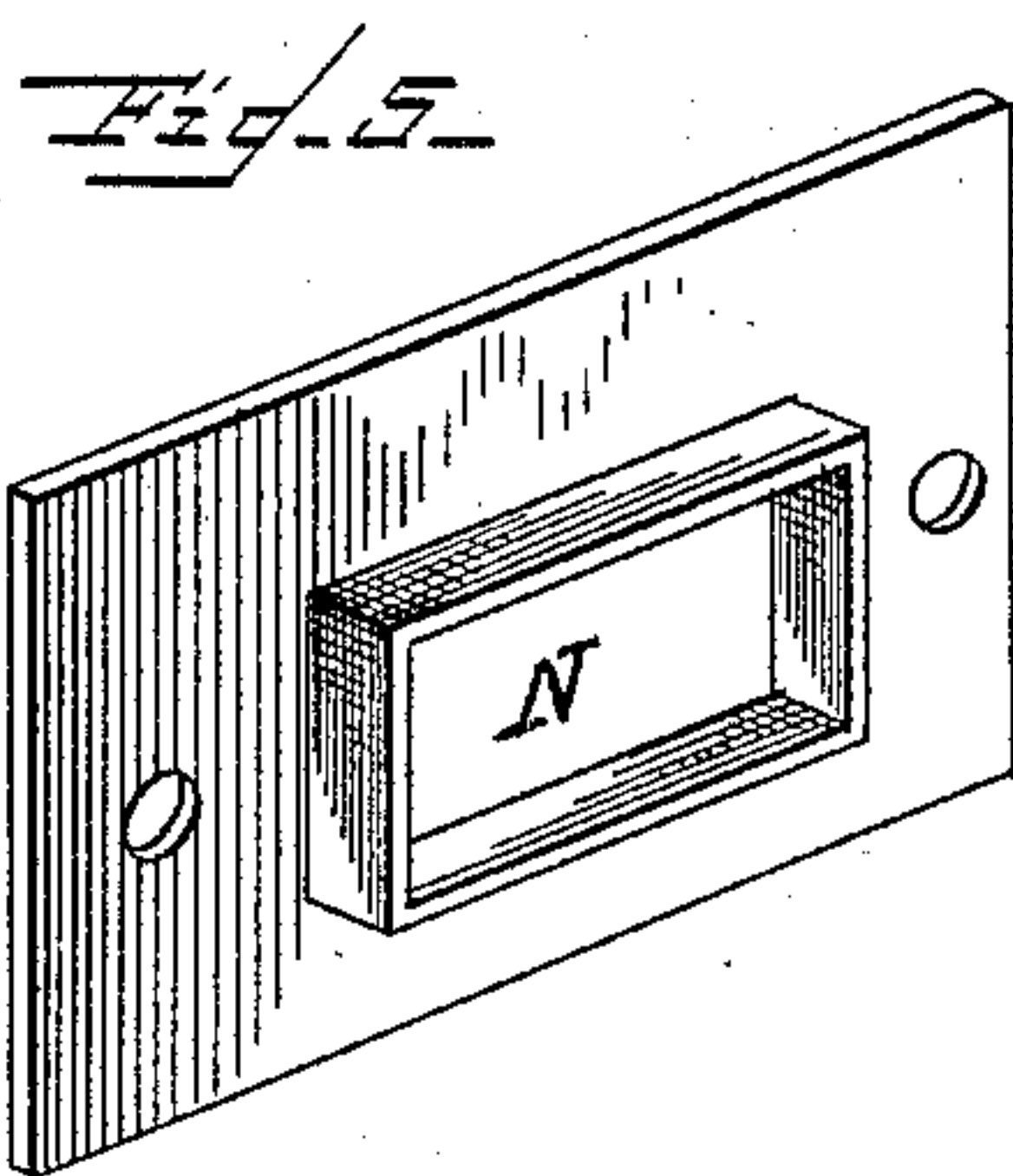
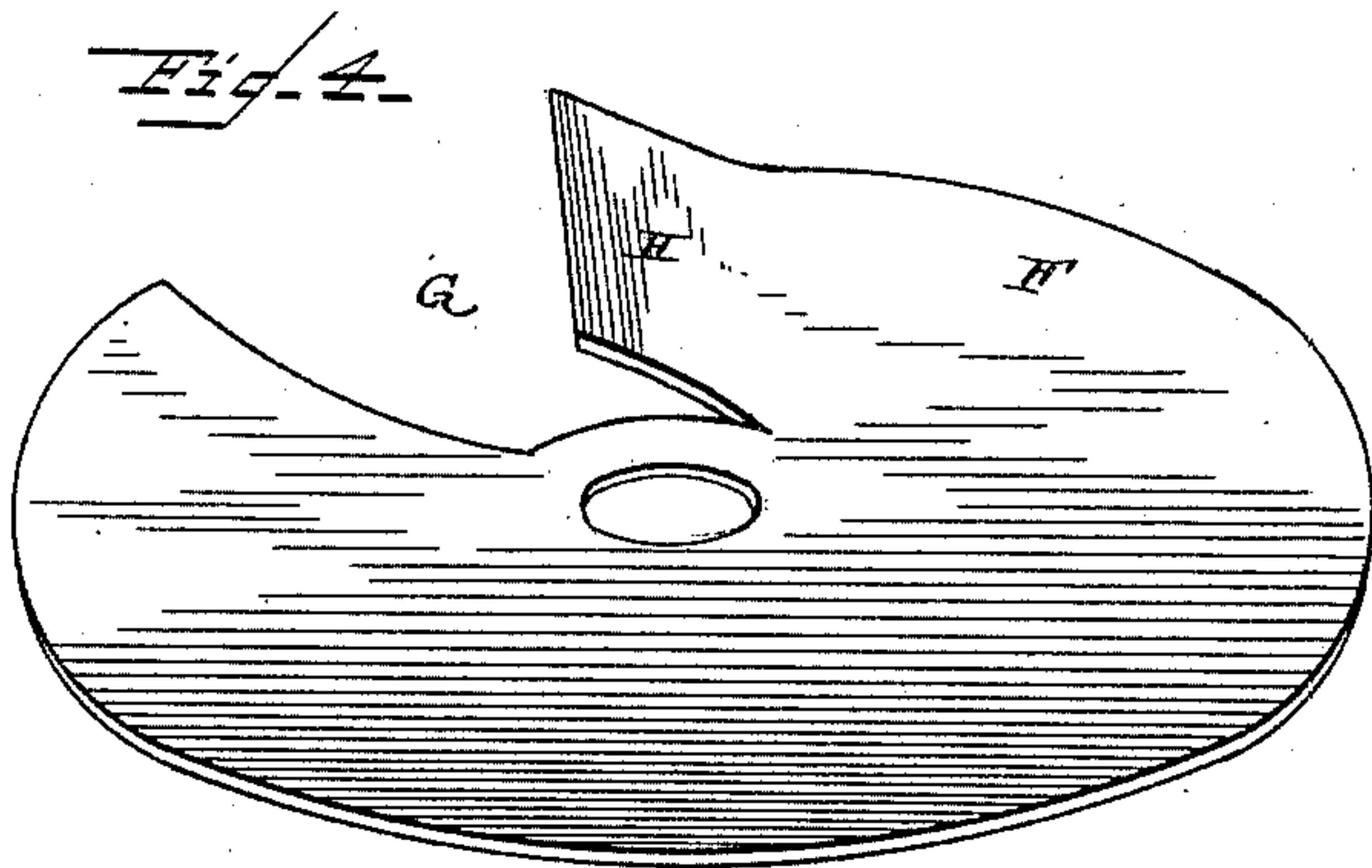
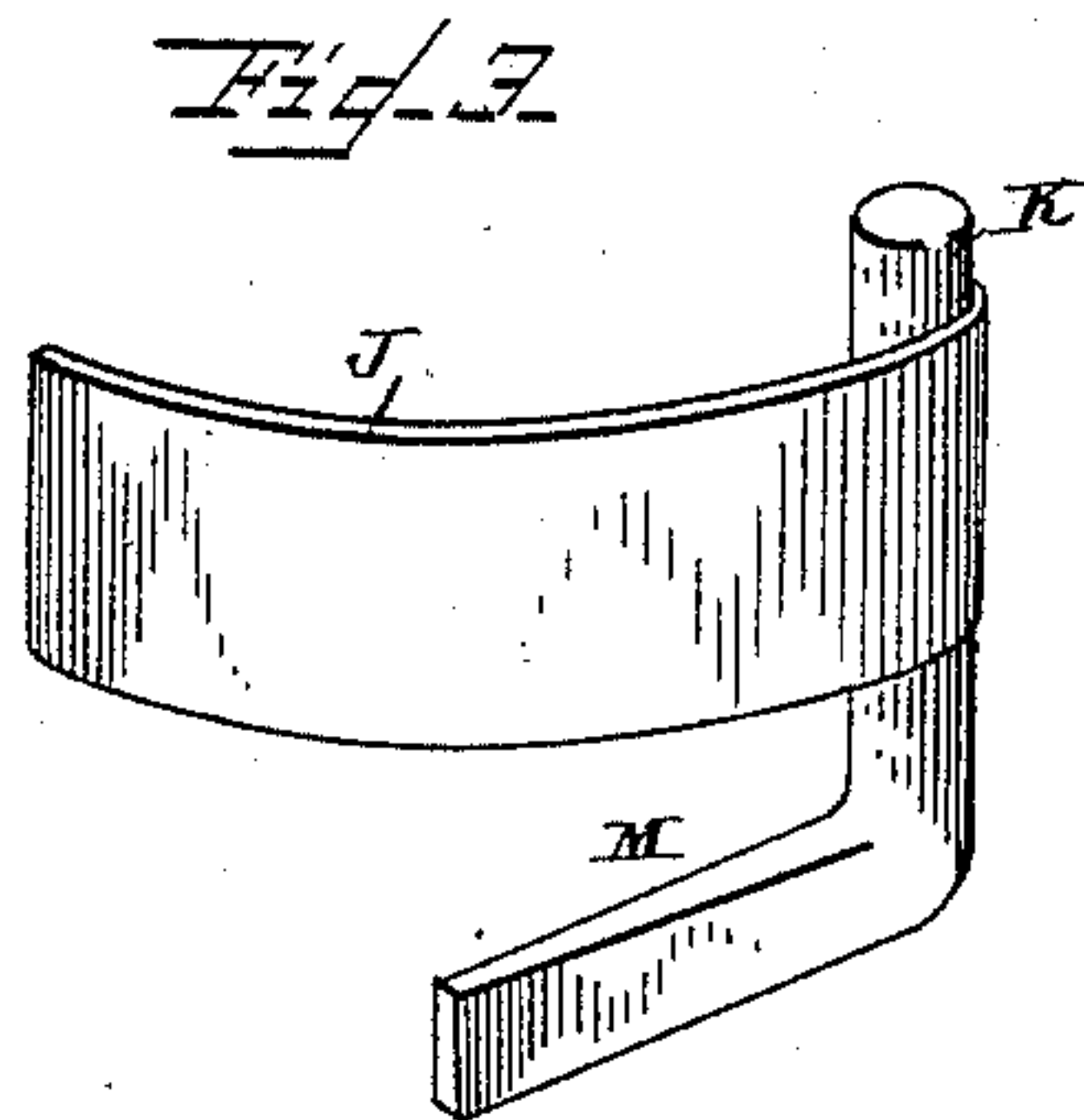
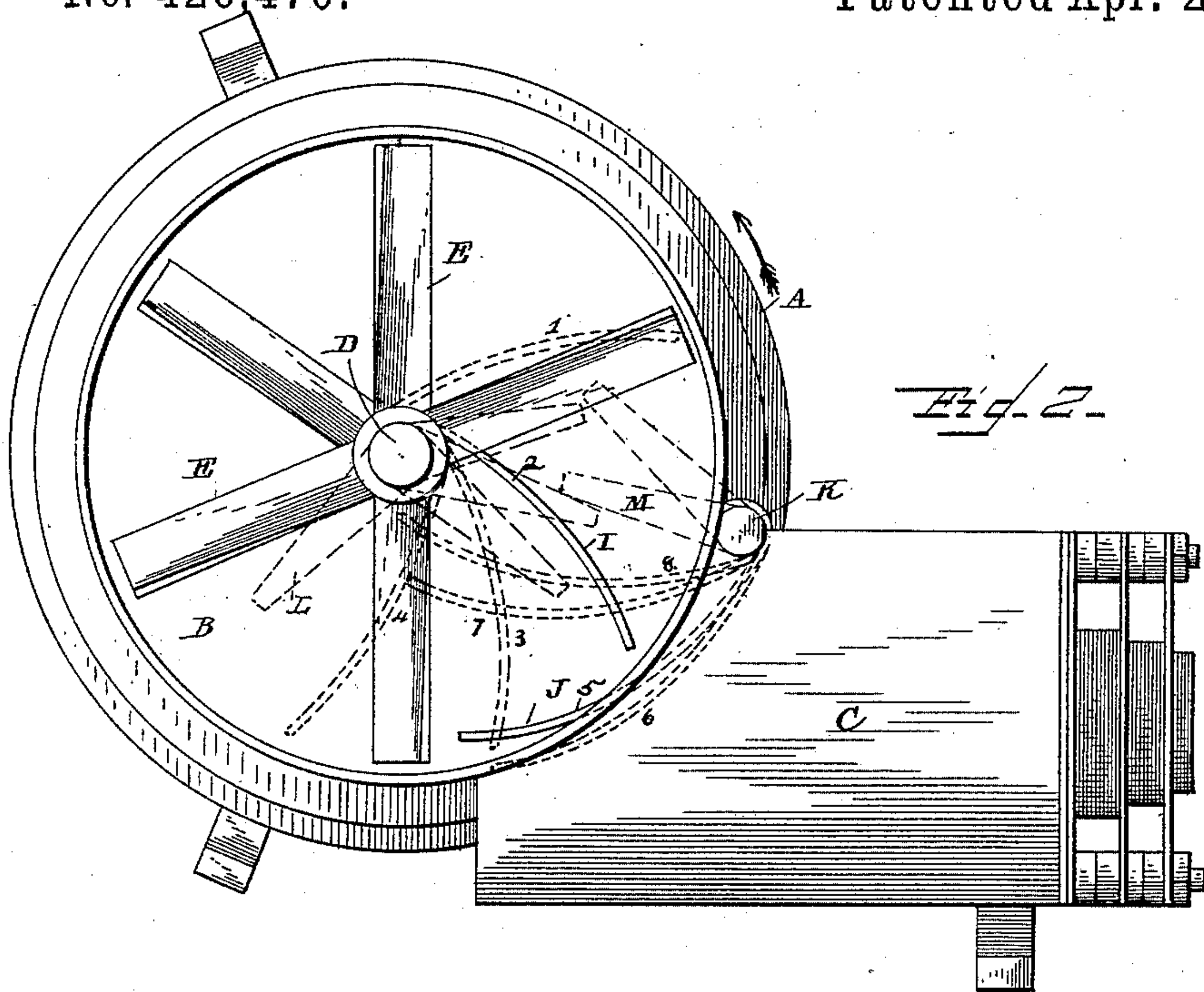
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2 Sheets—Sheet 2.

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# UNITED STATES PATENT OFFICE.

JULIUS REICHELT, OF FORT MADISON, IOWA.

## PUG-MILL.

SPECIFICATION forming part of Letters Patent No. 426,470, dated April 29, 1890.

Application filed August 22, 1888. Serial No. 283,433. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS REICHELT, of Fort Madison, in the county of Lee and State of Iowa, have invented certain new and useful Improvements in Pug-Mills; and I do hereby 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 pertains to make and use the same.

My invention relates to pug-mills, the object being to provide a device of this character that will be simple and inexpensive in its construction.

The invention consists in the combination, with a pug-mill and a shaft, of a molder arranged near the bottom of said pug-mill and a gate and a flange to force clay or other material into said molder.

The invention further consists in the combination, with a pug-mill, shaft, and molder, of a gate arranged at the mouth of said molder and a flange secured to said shaft, said gate adapted to be opened and closed by said flange, and a plate to force the clay or other material in the path of said flange.

The invention further consists in the various features of construction and combinations of parts, hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my invention with parts cut away to show the interior construction. Fig. 2 is a plan view with plate removed; and Figs. 3, 4, and 5 show parts in detail.

Referring to the drawings, A represents a base upon which the different parts of the device are mounted.

B represents a pug-mill, cylindrical in form, arranged upon said base A. At the bottom of said pug-mill and upon a projecting portion of the base a molder C is placed. The pug-mill is cut away at the place where the molder is arranged, so as to allow a connection between said pug-mill and molder.

D represents a shaft passed through the center of the pug-mill and extending some distance above. To the top of this shaft the power is applied by any suitable mechanism.

The bottom is provided with an arm L, which is at right angles to the shaft D and extends in an opposite direction to the flange I.

The shaft D is provided with radially-arranged arms E, adapted to temper the clay before it is forced into the molder.

F represents a plate secured upon the shaft D at a point about even with the upper portion of the molder. This plate is adapted to be revolved with the shaft D, and, as shown at G, a portion is cut away, and one edge of said plate F is turned up, as shown at H. This up-turned portion is adapted to force the clay beneath the plate F, so that it may be forced into the molder by the mechanism to be described.

The mechanism for forcing clay into the molder consists of a flange I and a gate J. This flange I extends from the shaft D, to which it is secured, to within a short distance of the inner surface of the pug-mill. The flange I is curved so that its center portion will be in advance of its ends. The gate J is arranged adjacent to the mouth of the molder and is secured at one end by a pivoted post K. The gate J is constructed long enough to reach the shaft D in the center of the pug-mill, and it is also adapted to close the opening between the pug-mill and the molder. Both the shaft D and post K are extended below the base A, and are turned to said shaft and post at right angles to form arms L and M, respectively.

The operation of my invention is as follows: Clay or other material is fed into the pug-mill, and is carried below the plate F by the mechanism described. It is then forced out through the opening N in a continuous intermittently-advancing stream, and is then cut into bricks and carried away. To illustrate the operation of the gate I and flange, I have shown them in dotted lines in four different positions. (Designated 1, 2, 3, and 4, and 5, 6, 7, and 8, respectively.) The flange moves in the direction indicated by the arrow. Positions 1 and 2 show the manner in which the gate is opened by means of the arms L and M, and positions 3 and 4 the manner in which it is closed and also the manner in which clay is forced into the molder.

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

1. The combination, in a pug-mill, with the shaft and molder, of a plate secured to said shaft, said plate provided with a cut-away

portion having one of its edges upturned, as described and shown.

2. The combination, in a pug-mill, with the shaft and molder, of a plate and flange mounted upon said shaft, the flange being located on a lower plane than the plate, as and for the purpose specified.

3. The combination, in a pug-mill, with the shaft and molder, of a plate and flange mounted upon said shaft, and a suitable gate intermediate the mill and molder, as and for the purpose specified.

4. The combination, in a pug-mill, with the

shaft and molder, of a plate-flange and arm mounted upon said shaft in the relative position shown, a post, a gate intermediate the mill and molder, and an arm, said gate and arm mounted on the post, as and for the purpose specified.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JULIUS REICHELT.

Witnesses:

O. C. HERMINGHAUSEN,  
J. W. TROW.