

No. 847,810.

PATENTED MAR. 19, 1907.

C. G. OMAN.
CIDER MILL.

APPLICATION FILED JAN. 3, 1906.

3 SHEETS—SHEET 1.

Fig. I

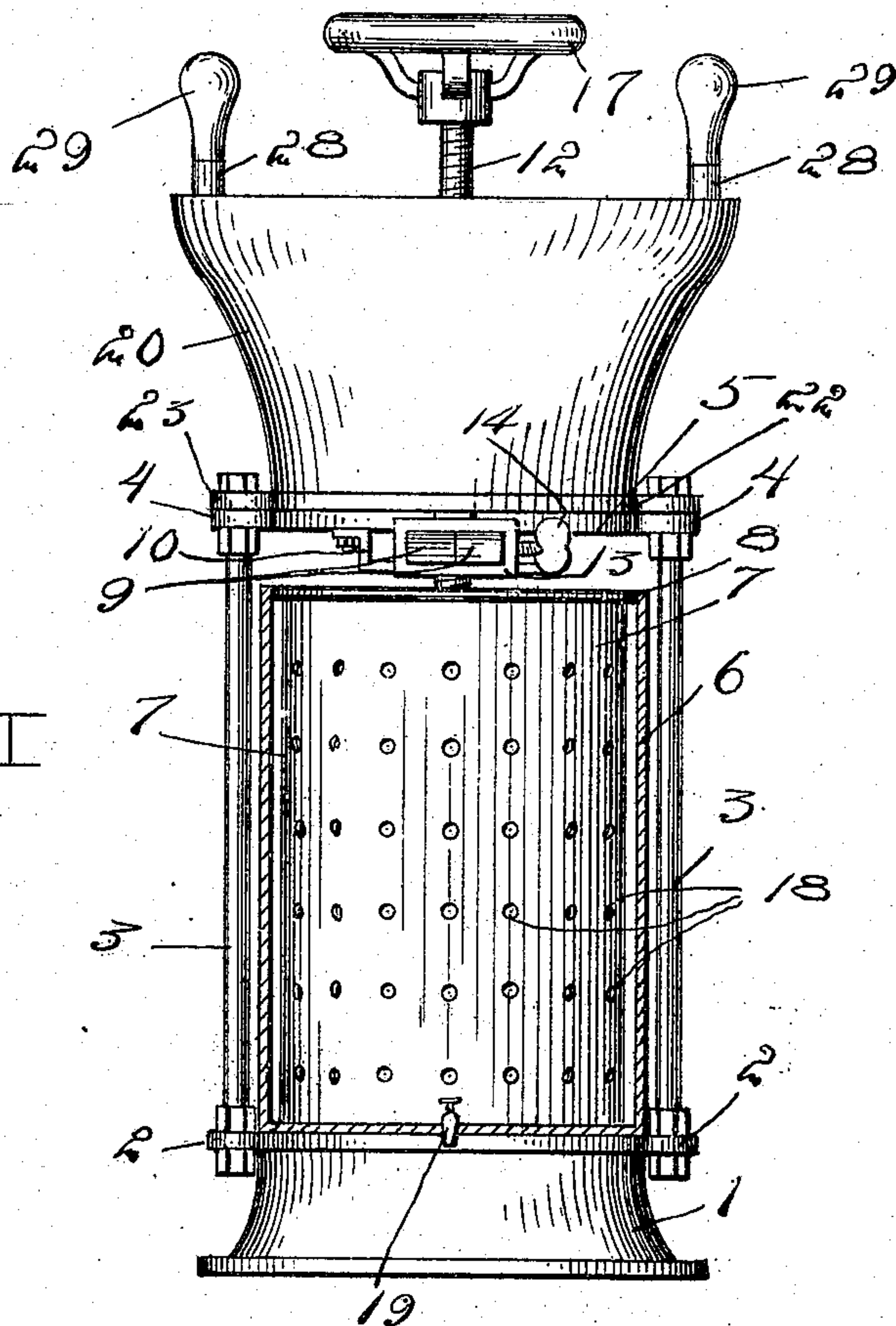
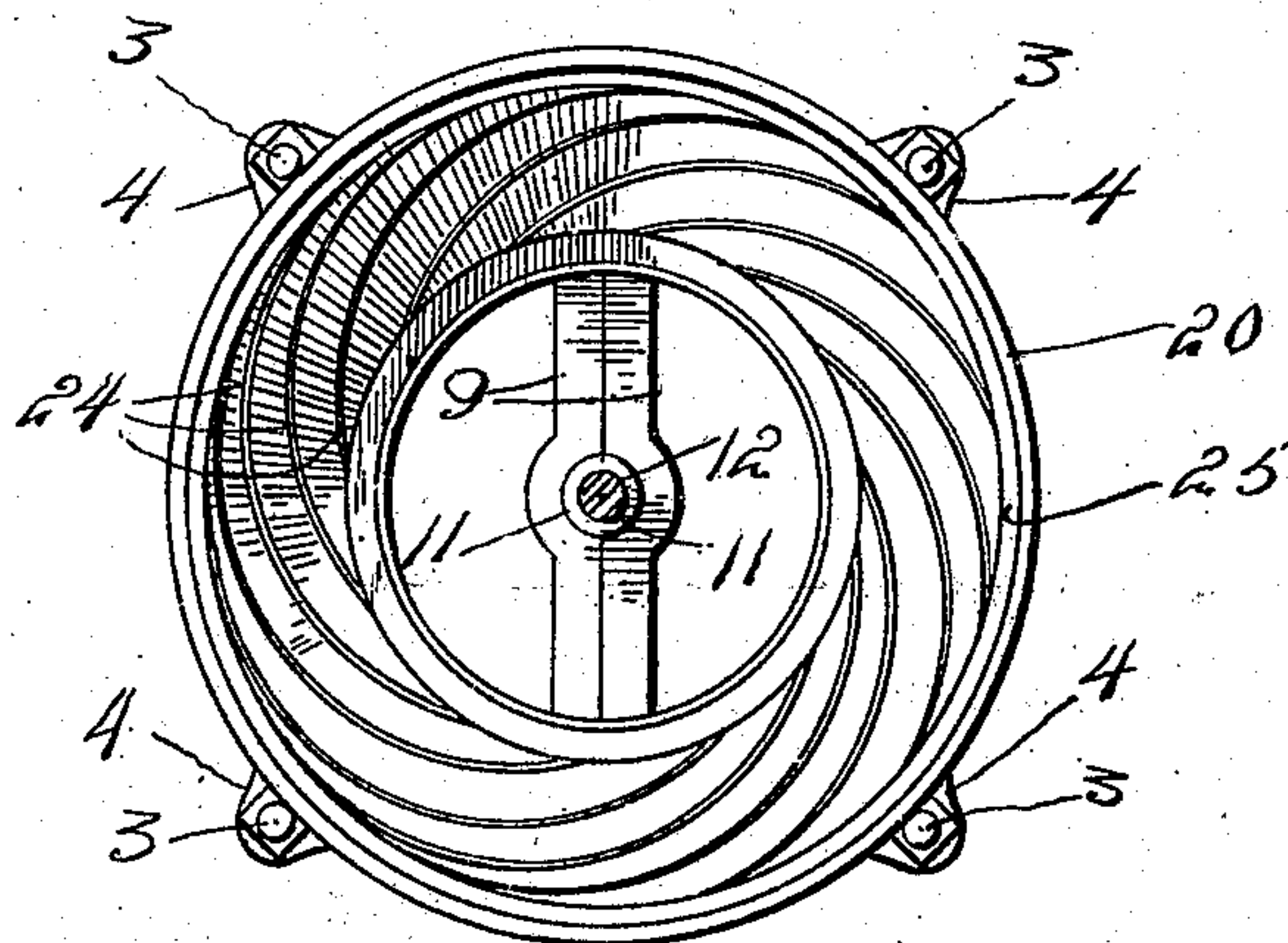


Fig. 2



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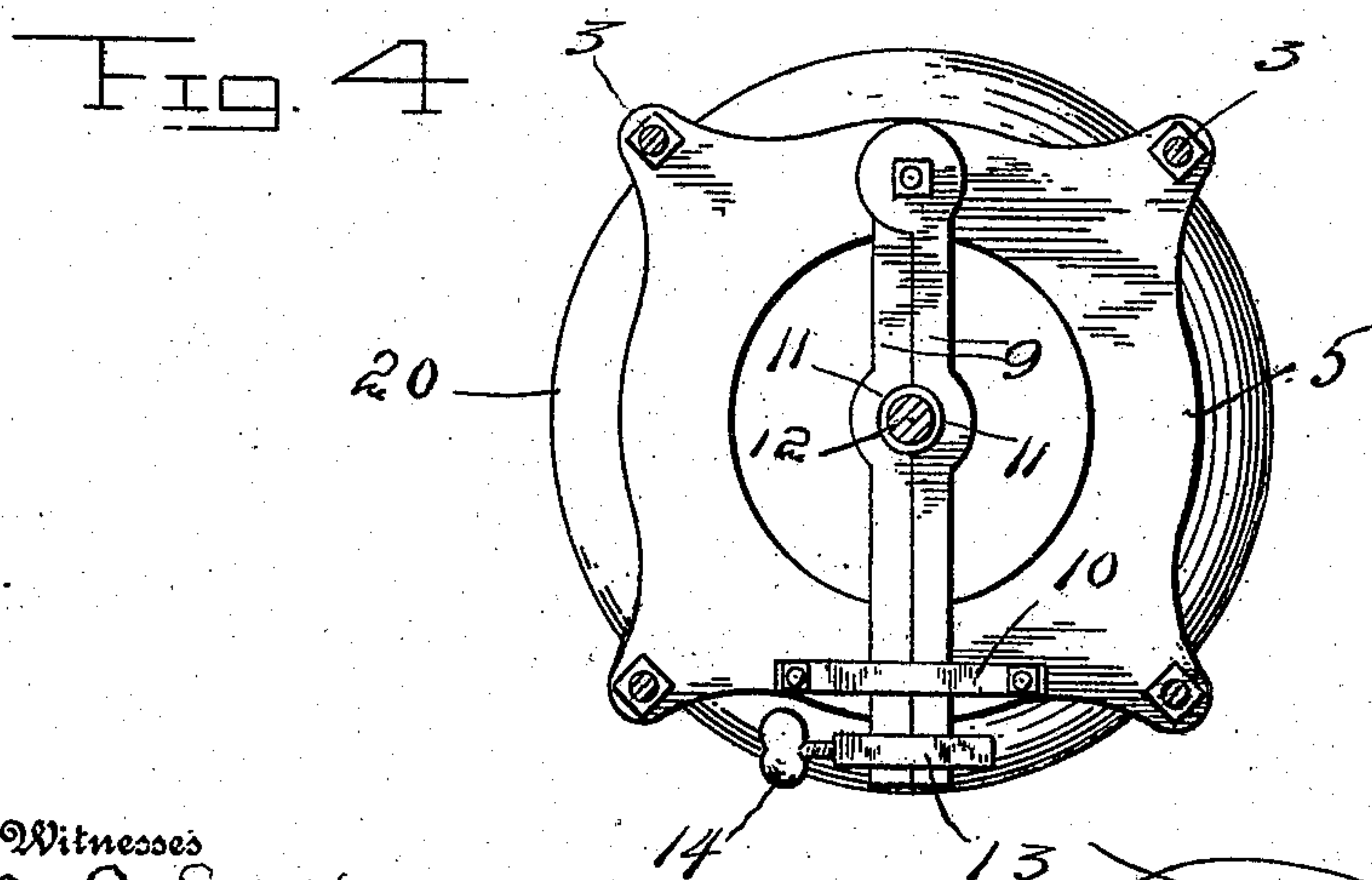
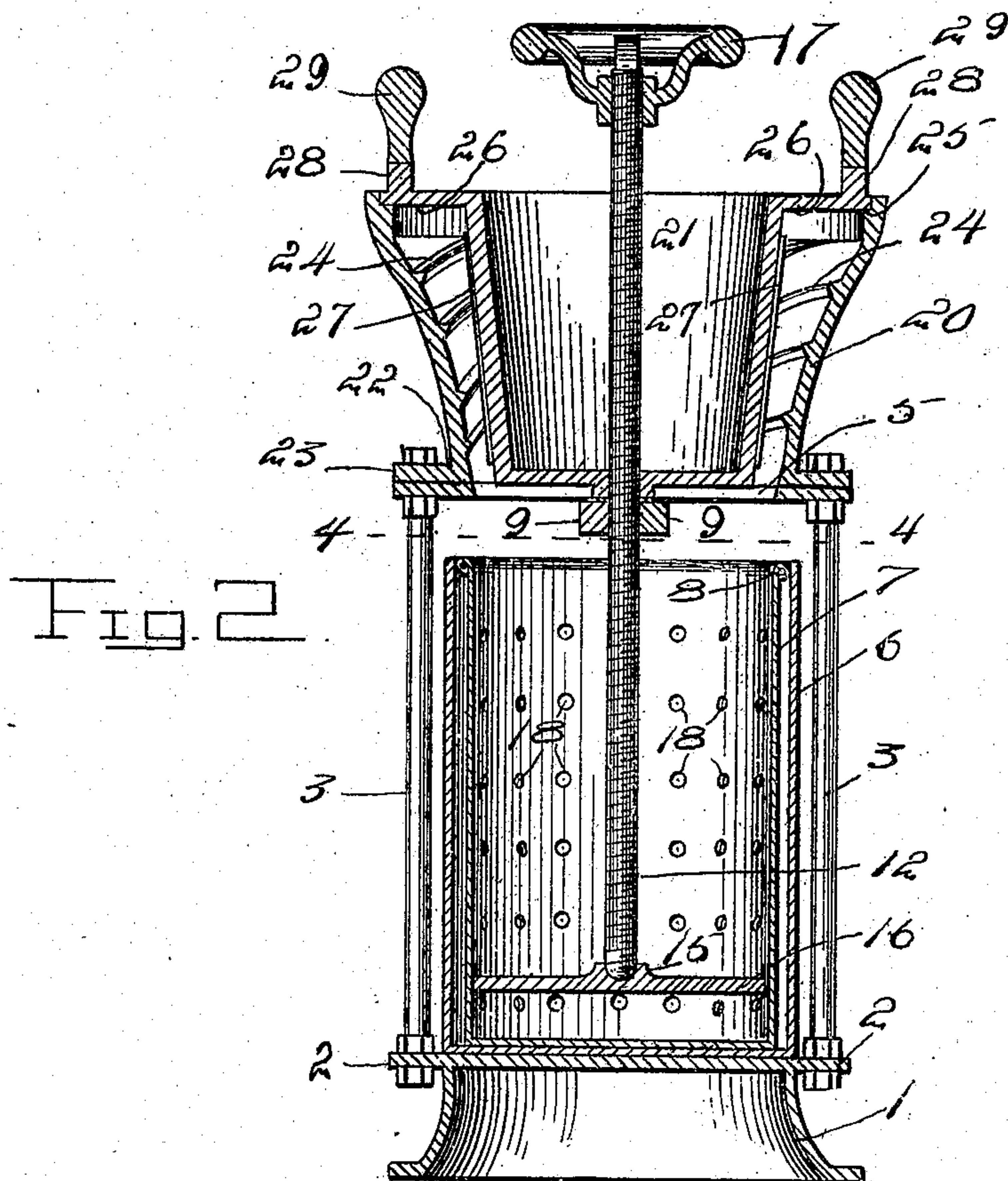
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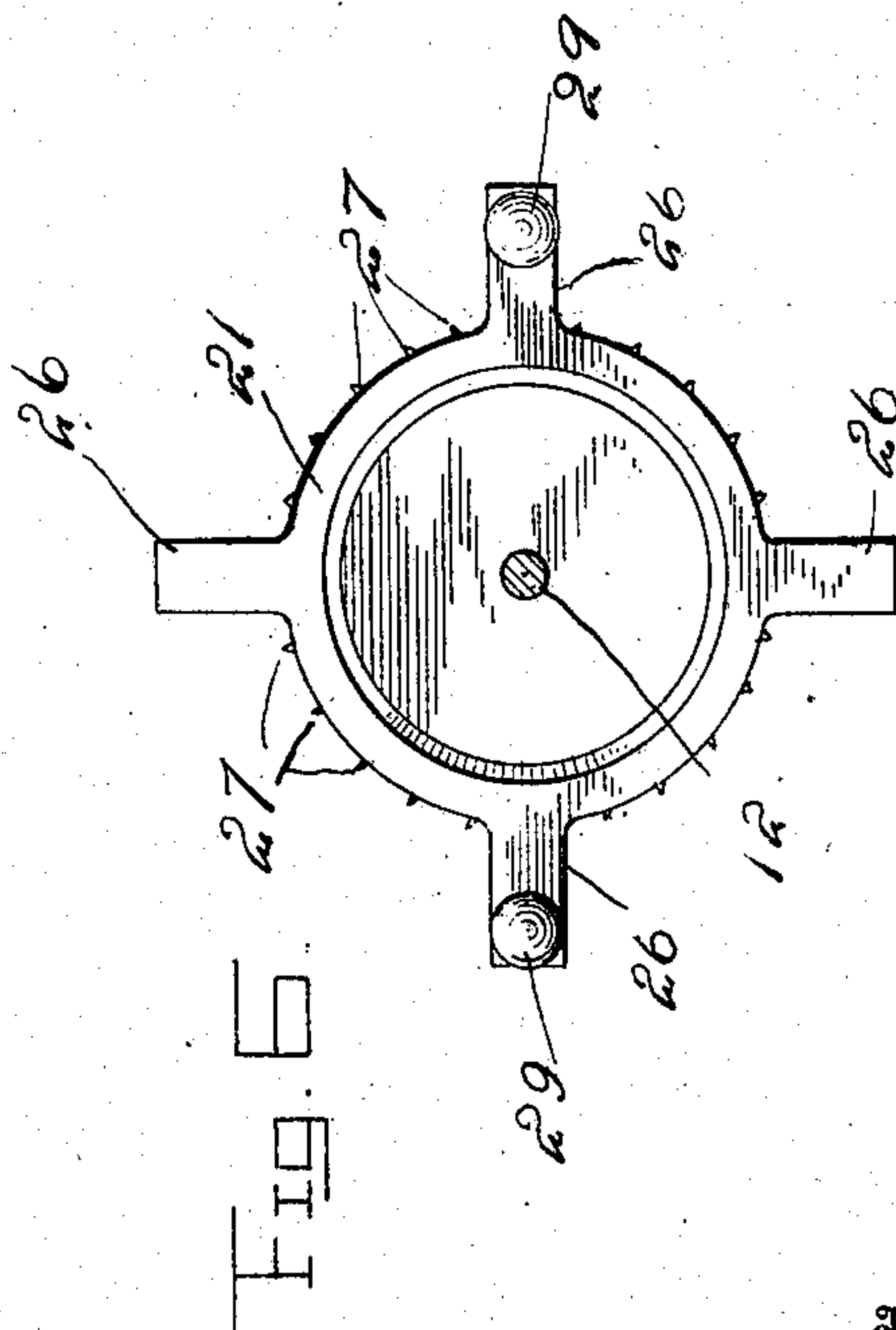
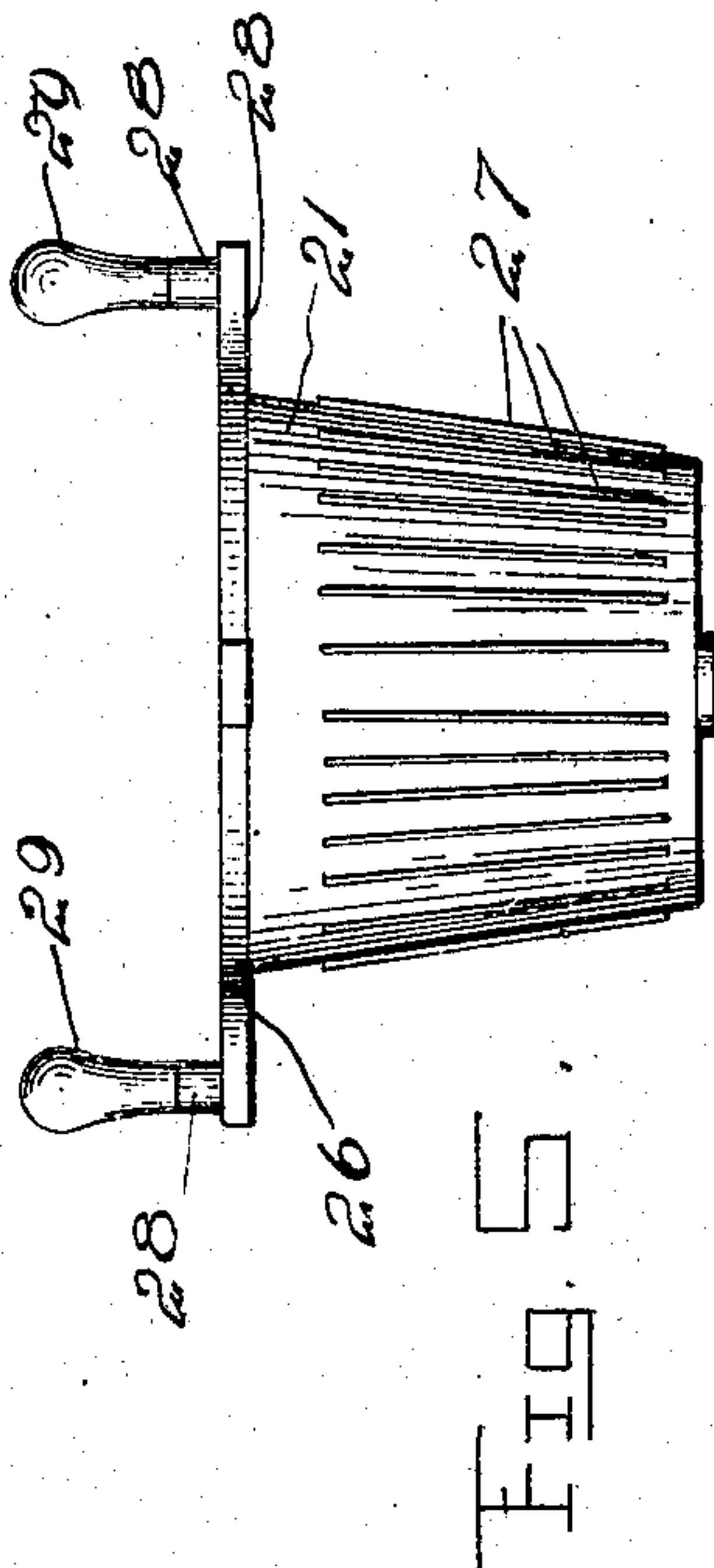
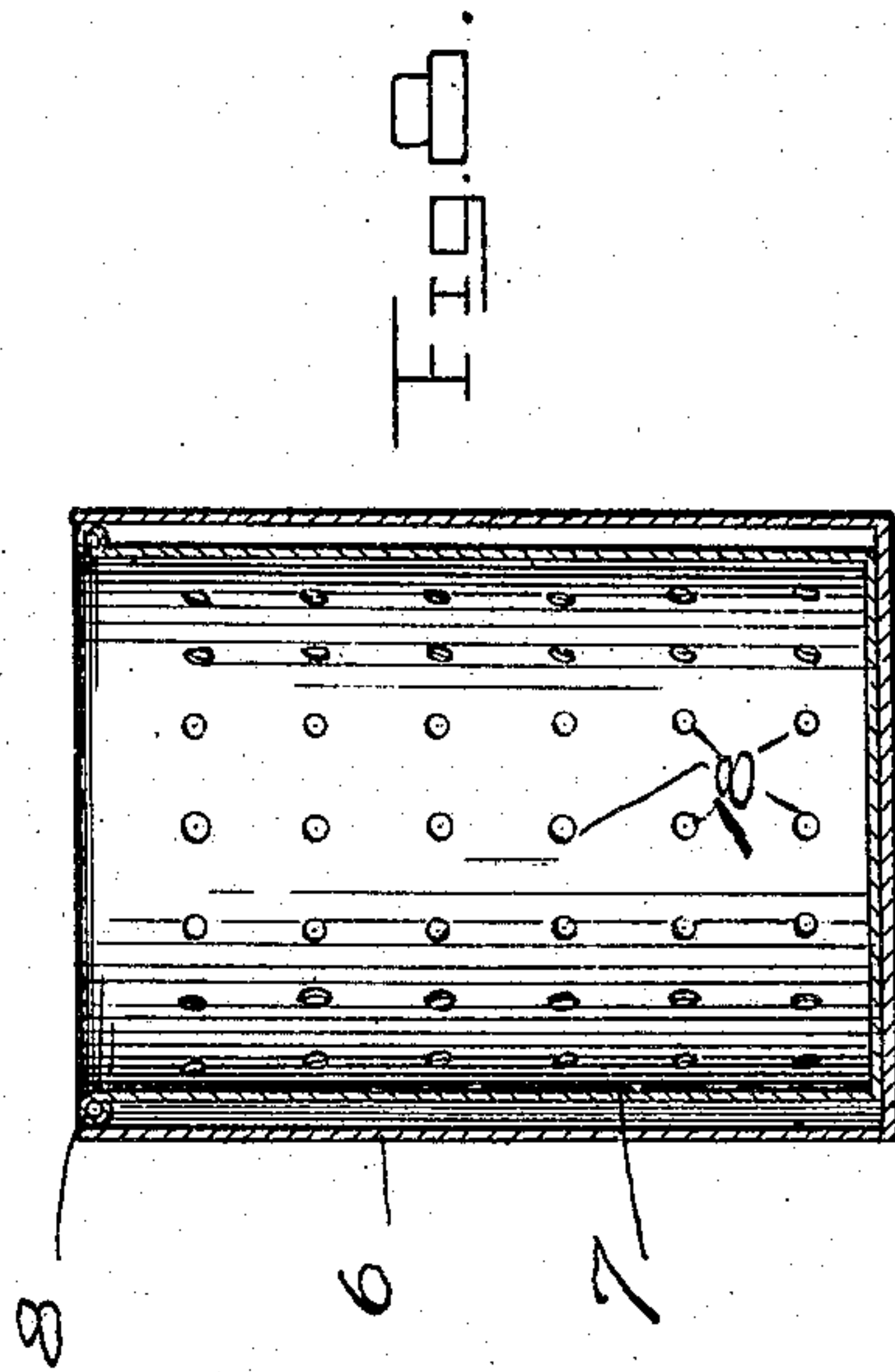
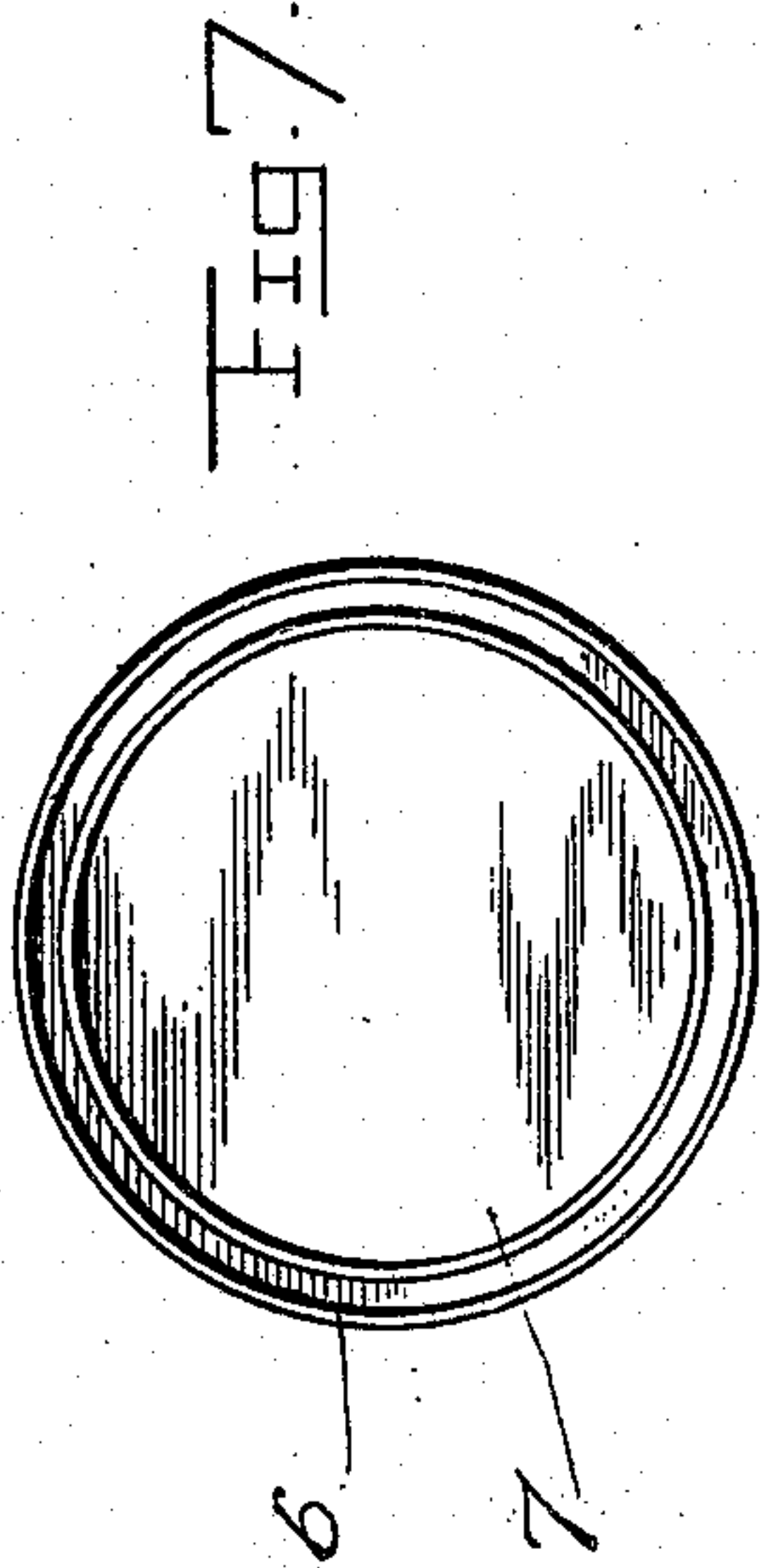
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

CHARLES G. OMAN, OF JONESBORO, INDIANA.

CIDER-MILL.

No. 847,810.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed January 3, 1906. Serial No. 294,400.

To all whom it may concern:

Be it known that I, CHARLES G. OMAN, a citizen of the United States, residing at Jonesboro, in the county of Grant, State of Indiana, have invented certain new and useful Improvements in Cider-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 appertains to make and use the same.

This invention relates to a combined cider mill and press, and has for its object to provide a device of this character which shall be simple in construction and efficient in action.

A further object of the invention is to provide a device of this nature in which the mill element of the same may be removed.

With the above and other objects in view the invention consists in the construction and arrangement of parts shown in the accompanying drawings, in which—

Figure 1 is an elevation of my invention, the outer cylinder of the press being shown in section. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a top plan view of the device, the core of the mill being removed; and Fig. 4 is a transverse sectional view on the line 4 4 of Fig. 2 and looking at the bottom of the mill element of the invention. Fig. 5 is a detail view in elevation of the core of the mill. Fig. 6 is a top plan view of the same. Fig. 7 is a top plan view of the inner and outer cylinders of the press element of the invention, the same being removed from the device; and Fig. 8 is a vertical sectional view through the same.

Referring to the drawings, the numeral 1 denotes the base of the device and is provided at its upper edge with apertured ears 2, the lower ends of standards 3 being engaged in the said apertures in the said ears and having their upper ends engaged through apertures in similar ears 4, formed on an annular plate 5, the said standards 3 serving to support the said annular plate 5 in spaced relation with respect to the base 1. Supported upon the base 1 is an outer cylinder 6, which is closed at its bottom, and disposed within the said cylinder 6 is an inner cylinder 7, which is also closed at its bottom and which has its upper edge turned over, as at 8, to hold the said cylinder 7 in spaced relation from the cylinder 6. Pivoted to the under side of the annular plate 5 is a pair of arms 9, which have their forward ends engaged through a yoke 10,

secured to the under side of the plate 5 in opposition to the pivotal point of the arms. The arms 9 are curved outwardly in opposite directions, as at 11, so that when the said arms are swung to engagement with each other a bearing is formed for a screw-threaded rod 12. In order that the arms may be held in this position, a yoke 13 is engaged over the extreme free ends of the arms 9 and is provided with a set-screw 14, by means of which the said arms may be held in proper relation. At its lower end the threaded rod 12 is engaged in a step-bearing 15, formed in a circular plate 16, which is of substantially the same diameter as the inner cylinder 7, the said rod 12 being provided at its upper end with a hand-wheel 17, by means of which the said rod may be rotated to depress the plate 16, and thereby express the juice from apples or the like contained in the inner cylinder 7 below the said plate. The said inner cylinder 7 is provided in its sides with a plurality of perforations 18, through which the express juice may pass to the outer cylinder, from which it may be drawn by means of a faucet 19.

The mill element of the device is disposed above the press element and rests upon the annular plate 5. The said mill element comprises an outer member 20 and a core 21, the said outer member being provided with an annular flange 22, including ears 23, which register with the ears 4 on the annular plate 5. The outer member 20 is open at its top and bottom and is provided upon its inner periphery with a series of spiral ribs 24. At its upper edge the said member 20 is provided with an annular recess 25, in which is seated the ends of radial arms 26, formed on the upper edge of the core member 21, the said core member being hollow, as shown, and provided with vertical ribs 27 upon its outer periphery. A pair of the arms 26 are provided with upwardly-extending studs 28, upon which are mounted handles 29, by means of which the said core member 21 will be rotated. The outer member 20 is tapered downwardly, as shown, so that the fruit in its downward passage through the mill element will be tightly wedged between the said member 20 and the core 21 in order to thoroughly grind the same.

What is claimed is—

1. A device of the class described comprising a press element including an outer imperforate cylinder and an inner perforated cylinder, a mill element arranged to discharge

into said press element, said mill element including a core, and a follower arranged to work in said inner cylinder and including a stem extending through said core.

5 2. A device of the class described comprising a press element, a bearing-bracket disposed above said press element, a mill element arranged to discharge into said press element, and a follower including a stem having a bearing in said bearing-bracket and extending through said core, said follower being
10 arranged to work in said press element.

3. A device of the class described comprising a press element, a plate supported above
15 said press element, a bearing-bracket supported by said plate, a mill element supported upon said plate and including a core, and a follower in said press element, said follower including a stem having a bearing in said
20 bracket and extending through said core.

4. A device of the class described comprising a press element, a mill element arranged to discharge in said press element, said mill element being provided at its upper edge with an annular recess, and a core element
25 including arms having their ends resting in said recess.

5. A device of the class described comprising a press element, a mill element arranged to discharge into said press element, and a
30 core element including arms which sit at their ends upon the mill element to permit oscillatory movement of the core element.

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

CHARLES G. OMAN.

Witnesses:

FRED SCHRADER,
ANDY J. KEEVER.