

(No Model.)

2 Sheets—Sheet 1.

W. HALEY.

GLASS MOLD.

No. 388,556.

Patented Aug. 28, 1888.

Fig. 1.

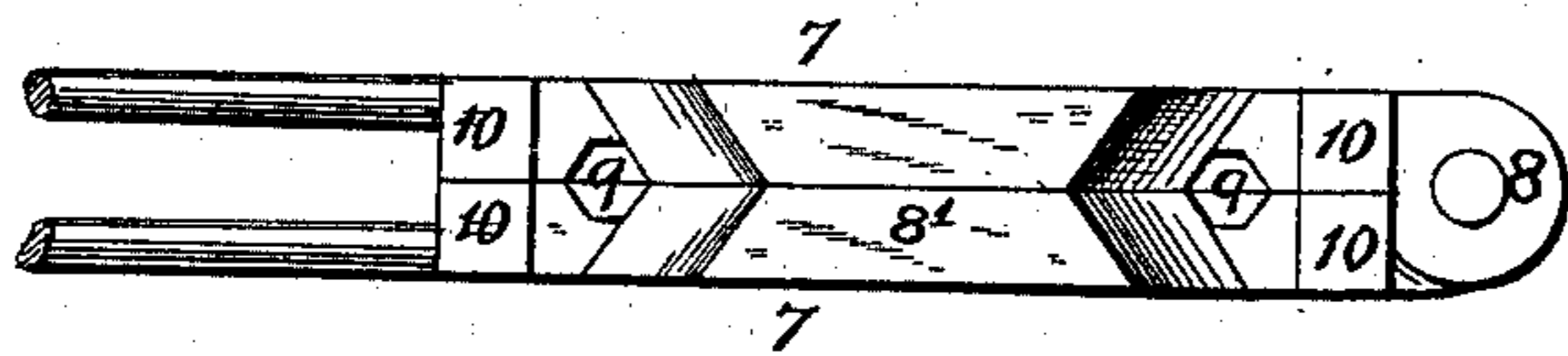
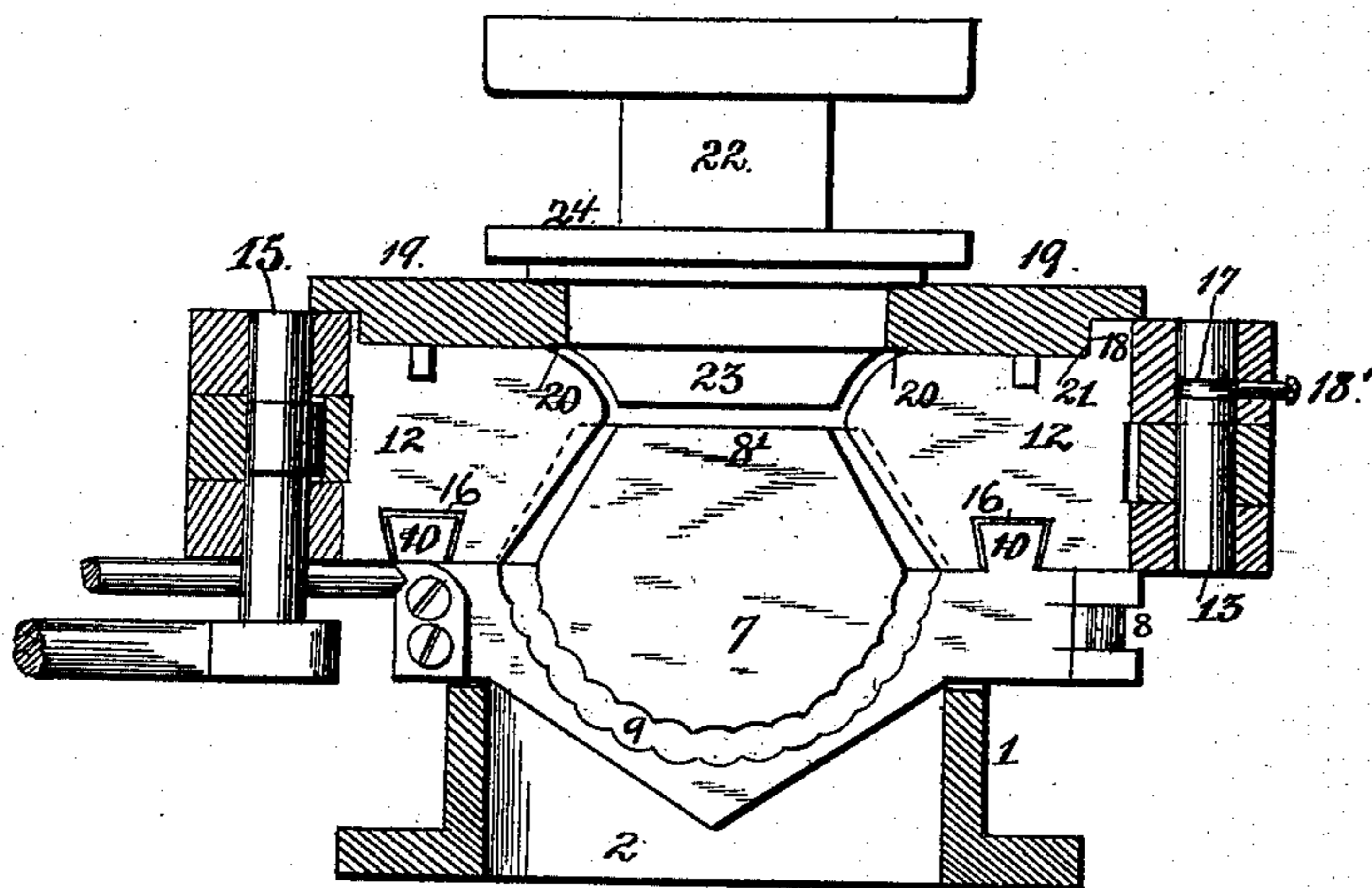


Fig. 4.

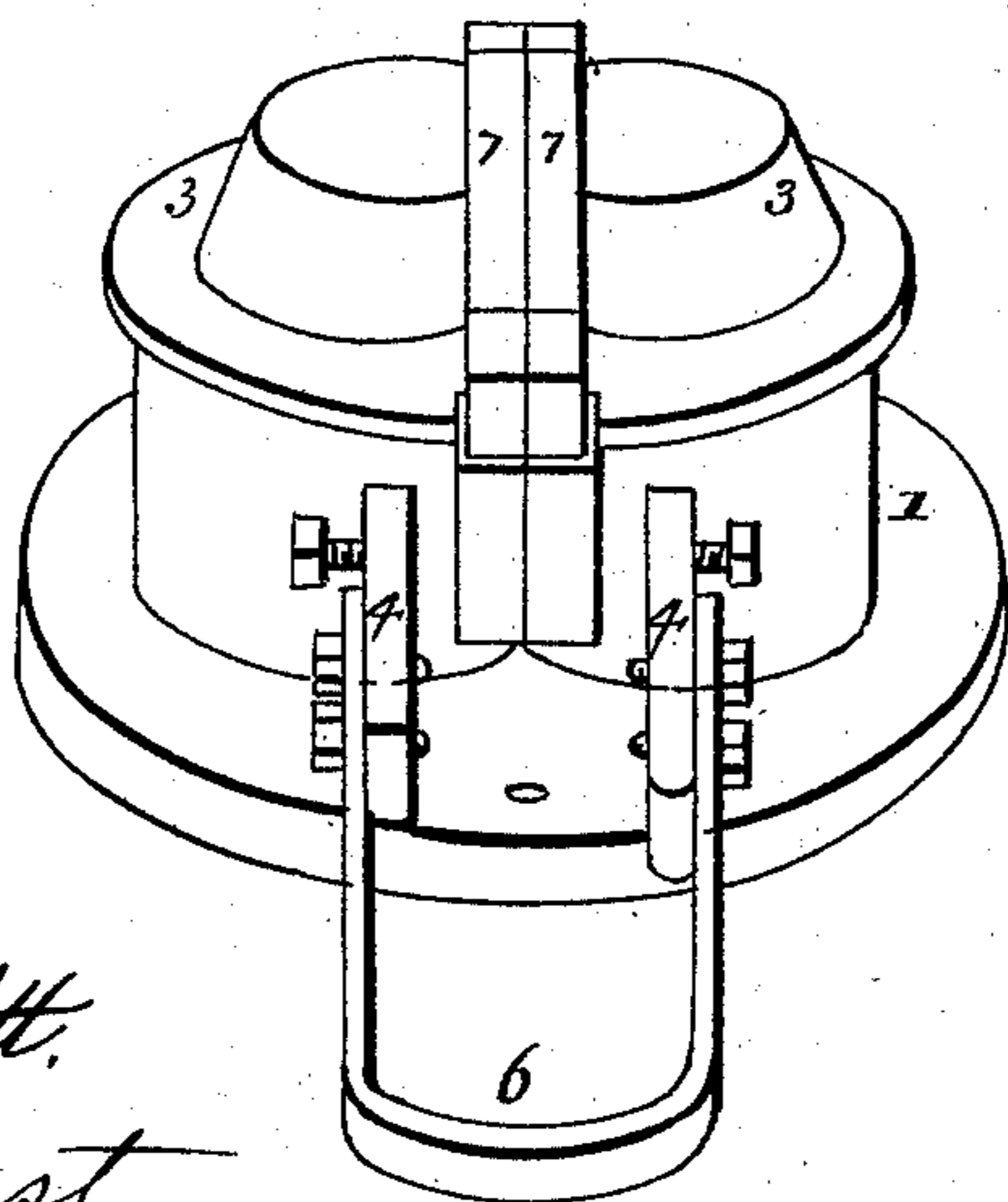


Fig. 5.

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2 Sheets—Sheet 2.

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Fig. 6.

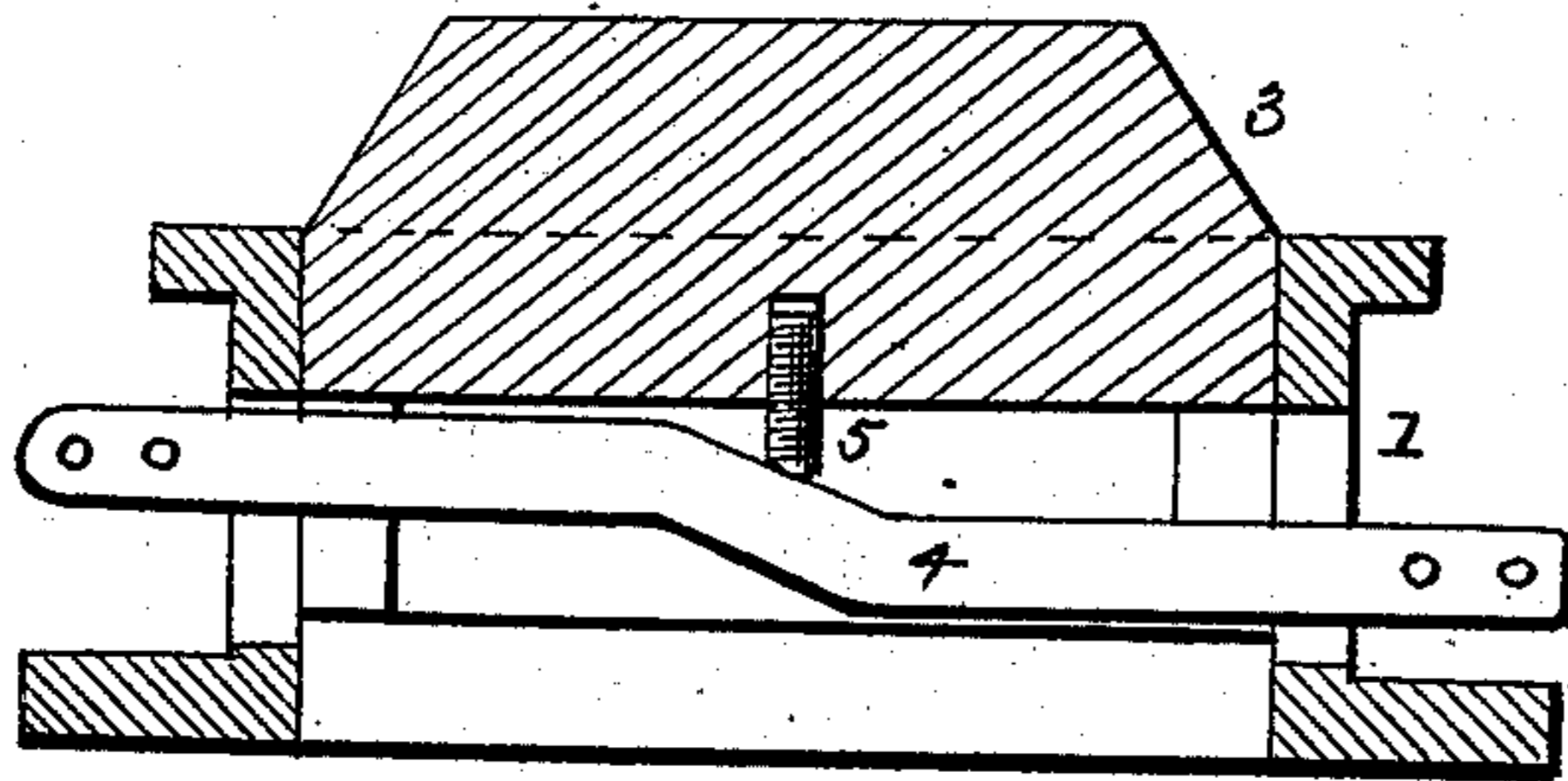


Fig. 2

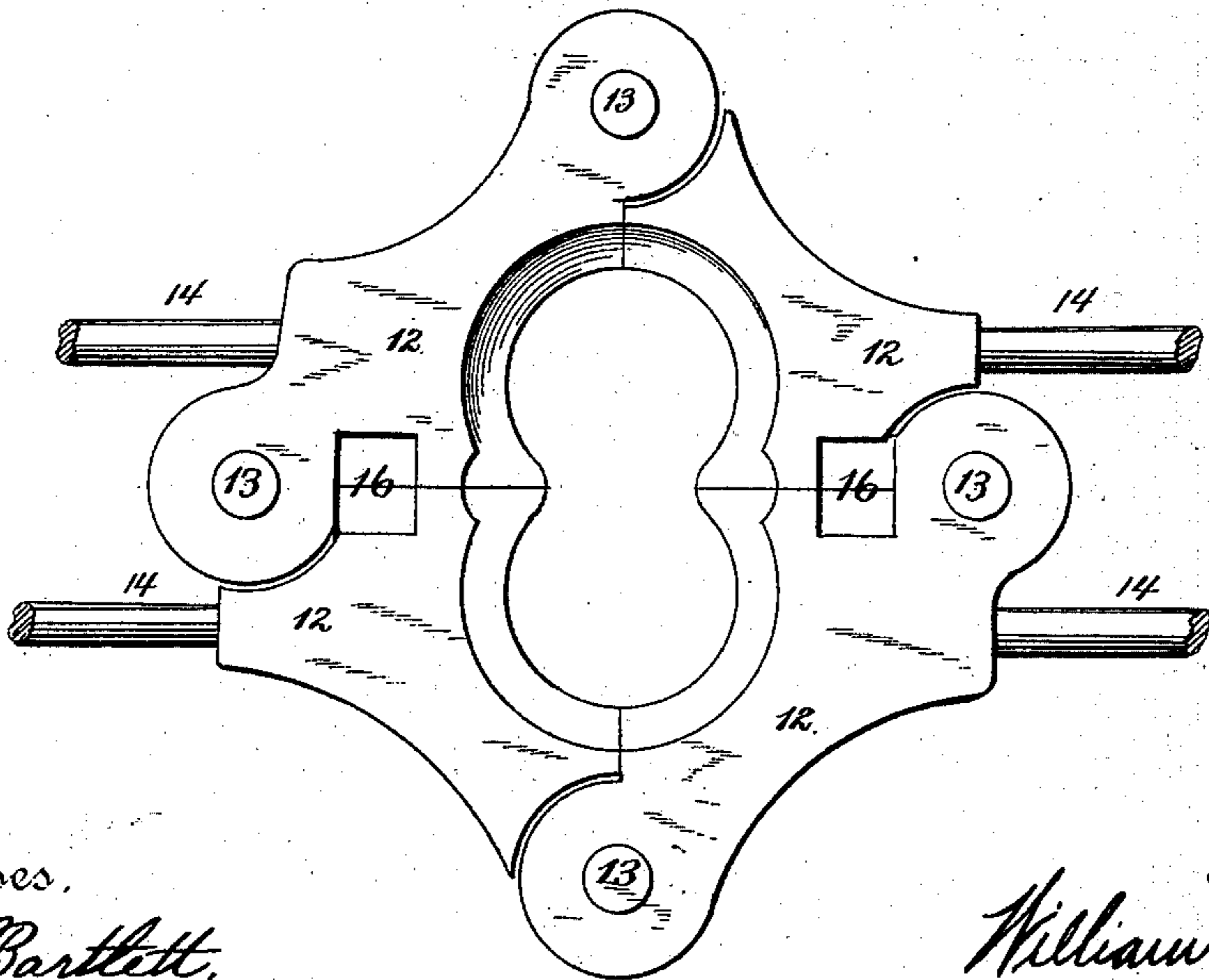
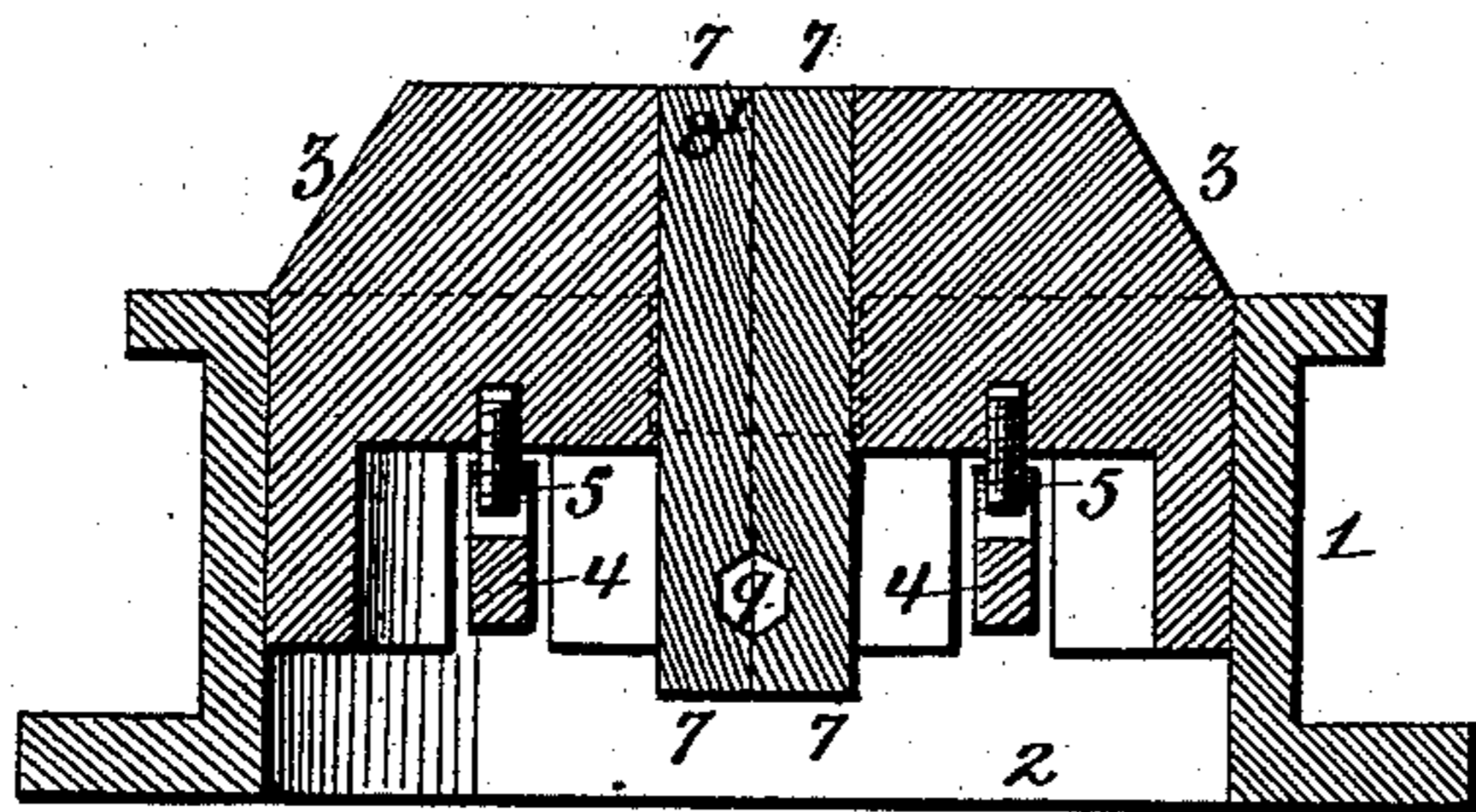


Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM HALEY, OF BEAVER FALLS, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JOHN CORBUS, OF SAME PLACE.

GLASS-MOLD.

SPECIFICATION forming part of Letters Patent No. 388,556, dated August 28, 1888.

Application filed March 29, 1888. Serial No. 268,812. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HALEY, a citizen of the United States, residing at Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Glass-Molds; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 is a vertical section and partial elevation of a glass-mold embodying my invention. Fig. 2 is a vertical section of the base-plate and lower part of the mold. Fig. 3 is a plan view of the main body of the mold. Fig. 4 is a top or edge view of the handle portion of the mold. Fig. 5 is a cross-section through the base and one of the movable plugs. Fig. 6 is a perspective view of the base, the twin movable plugs, and the interposed handle portion of the mold.

The purpose of the herein-described invention is for making a glass article in the form of a basket. The mechanical features of this invention may, however, be applied to glass-molds for other analogous articles by suitable modification or adaptation without departing from the spirit of my invention.

My invention therefore consists in the following construction and combination of parts, a description of which will first be given, and the novel features then set forth in the claims.

In the drawings, 1 represents the base of the mold, having a flanged bed.

2 is a vertical opening through the base, carrying the movable plugs and supporting the other parts of the mold.

The form of the product of the mold is a basket composed of two rounded ends having a contracted central body portion, from which springs the handle of the basket. The basket is shown in a Design application now pending before the Office.

The duplex vertically-moving plugs 3 are recessed at their lower ends, through which and through opposite sides of the base 1 pass double bars 4 4, having cam-faces thereon. These cam-

faces bear against the under side of the plugs 3 3 or against pins 5 5, inserted in the plugs. Pins 5 may be screw-pins, which are adjustable in the plugs for the purpose of varying the throw or movement of the plugs. The bars 4 4 may be united at one side. The movable plugs are of the configuration shown.

7 7 represent a two-part mold for forming the handle or bail of the glass article. 8 is the hinge uniting the parts which are fac-similes of each other, and each is provided with a handle for manipulating it. The mold 7 7 rests in an upright position within slots formed in the opposite sides of the base-plate 1, and fits snugly in between the sliding plugs 3. When the latter are forced upward, the upper edges, 8', of the molds 7 form a continuation of the plugs 3.

9 9 are the cavities of the molds 7, within which the handle of the article is pressed or cast.

10 10 are projections or dovetail lugs formed on molds 7 at each side, for a purpose hereinafter set forth.

12 represents the main body of the mold. It is composed of four hinged dies or parts; but its construction may be modified, and two, three, or more parts may be similarly used. 13 represents the hinges of this mold 12. The dies or faces of the mold are of the shape shown. 14 represents the usual handles to operate it by.

15 is the eccentric-pin for pressing and locking the parts tightly together.

16 represents oppositely-arranged dovetailed recesses formed in between the hinged portions of the body of the mold and corresponding to the dovetail projections 10 of molds 7.

17 represents grooves in the hinge-pin joints 13, and 18' is a set-screw entering the grooves to hold the pins in place.

18 is an annular recess in one side of the main body, and receives the bottom rim.

19 is that part of the mold which carries the bottom rim, 20.

21 is an annular flange on part 19, which fits snugly into the annular recess 18 in the main body 13. It has also dowel-pins which take into sockets in the main body.

22 is the plunger, which has a reciprocating movement through the rim-plate 19, and it may

be attached to any suitable motor or machine. Its face or die 23 has the configuration of the bottom of the glass article to be pressed. The downward movement of the plunger is limited
5 by its flange 24 against the rim-plate 19.

The glass basket is pressed upside down in order to facilitate the operation. The cavity 9, forming the handle, communicates at each side with body of the mold. The two part
10 mold being in place, the molten glass is introduced and the main mold is brought together and locked by the eccentric-pin 15. At the same time the dovetail recesses 16 close about the corresponding lugs, 10, and securely lock the
15 main body and the handle part of the mold together. When the plunger is forced into the mold, it causes the molten glass to embed, cut, or flow into all parts of the mold. In taking out the article from the mold the handle 6 is
20 first drawn, allowing the plugs 3 to drop. The

plunger and rim-plate are removed, and the main body 12, with the handle-mold 7 tightly locked to it, are removed together and inverted. The eccentric-pin is then removed and the two-part mold withdrawn, when the article 25 may be taken out.

I claim as new—

1. In a mold, the hinged main body part and a two-part handle portion, the latter being provided with surfaces adapted to be locked 30 in the hinged portion of the mold.

2. The combination, in a mold, of the duplex sliding plugs and a two-part handle portion interposed between the plugs.

In testimony whereof I affix my signature in 35 presence of two witnesses.

WILLIAM HALEY.

Witnesses:

JOHN REEVES,

JOHN E. GOFF, Jr.