

No. 805,655.

PATENTED NOV. 28, 1905.

W. H. LUCAS.
MOLD.

APPLICATION FILED JULY 17, 1905.

2 SHEETS—SHEET 1.

FIG. 1

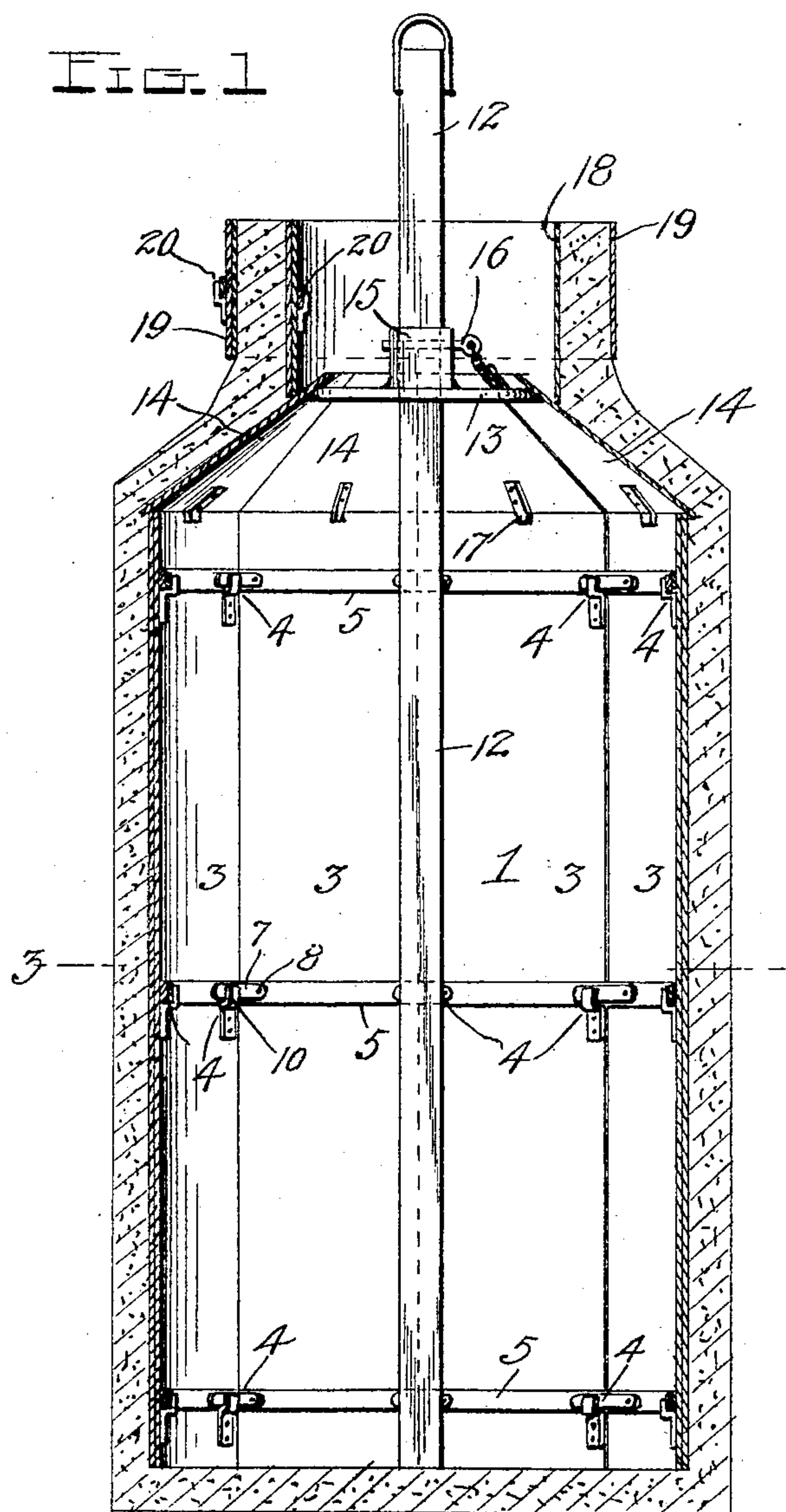


FIG. 2

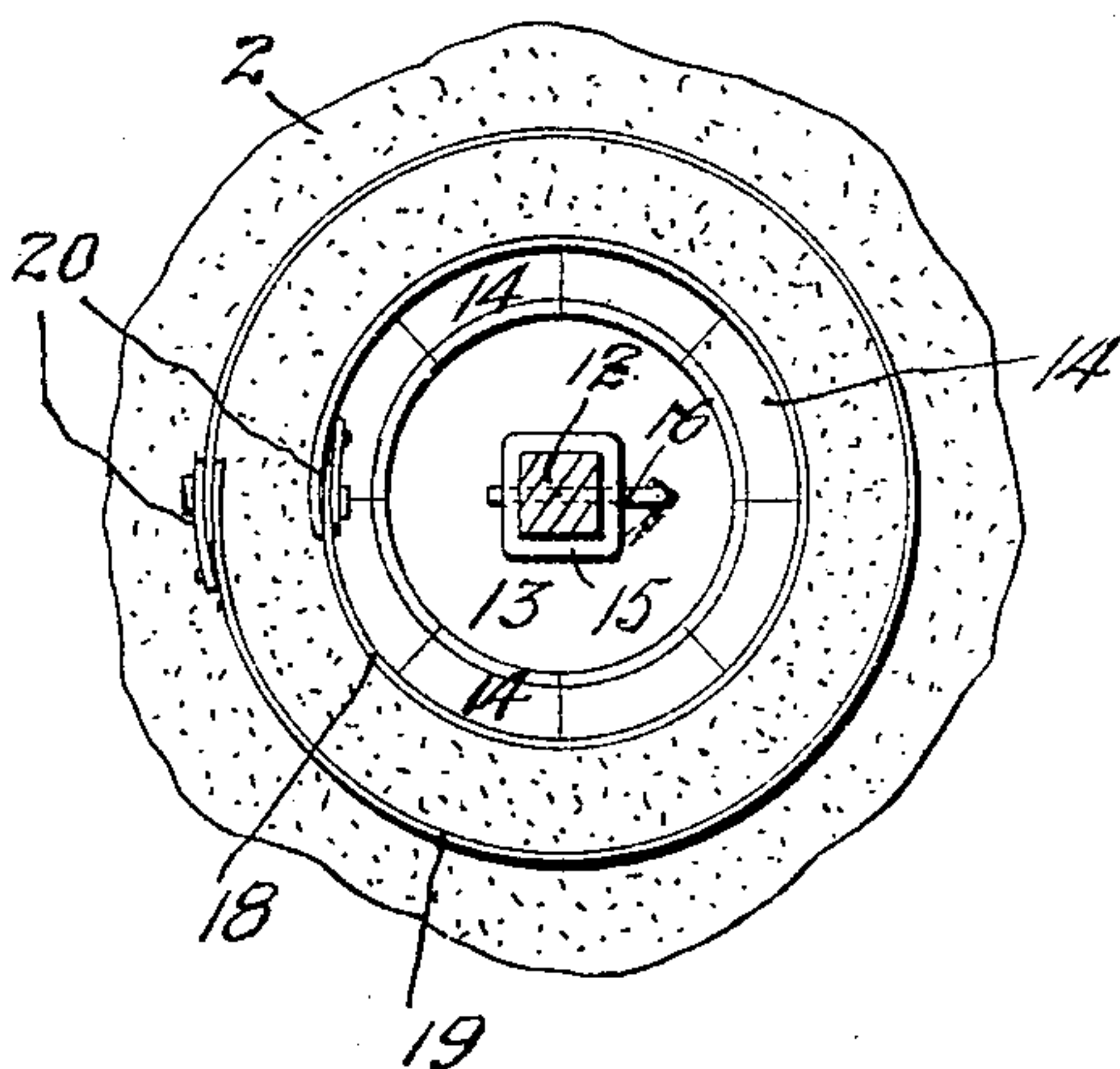
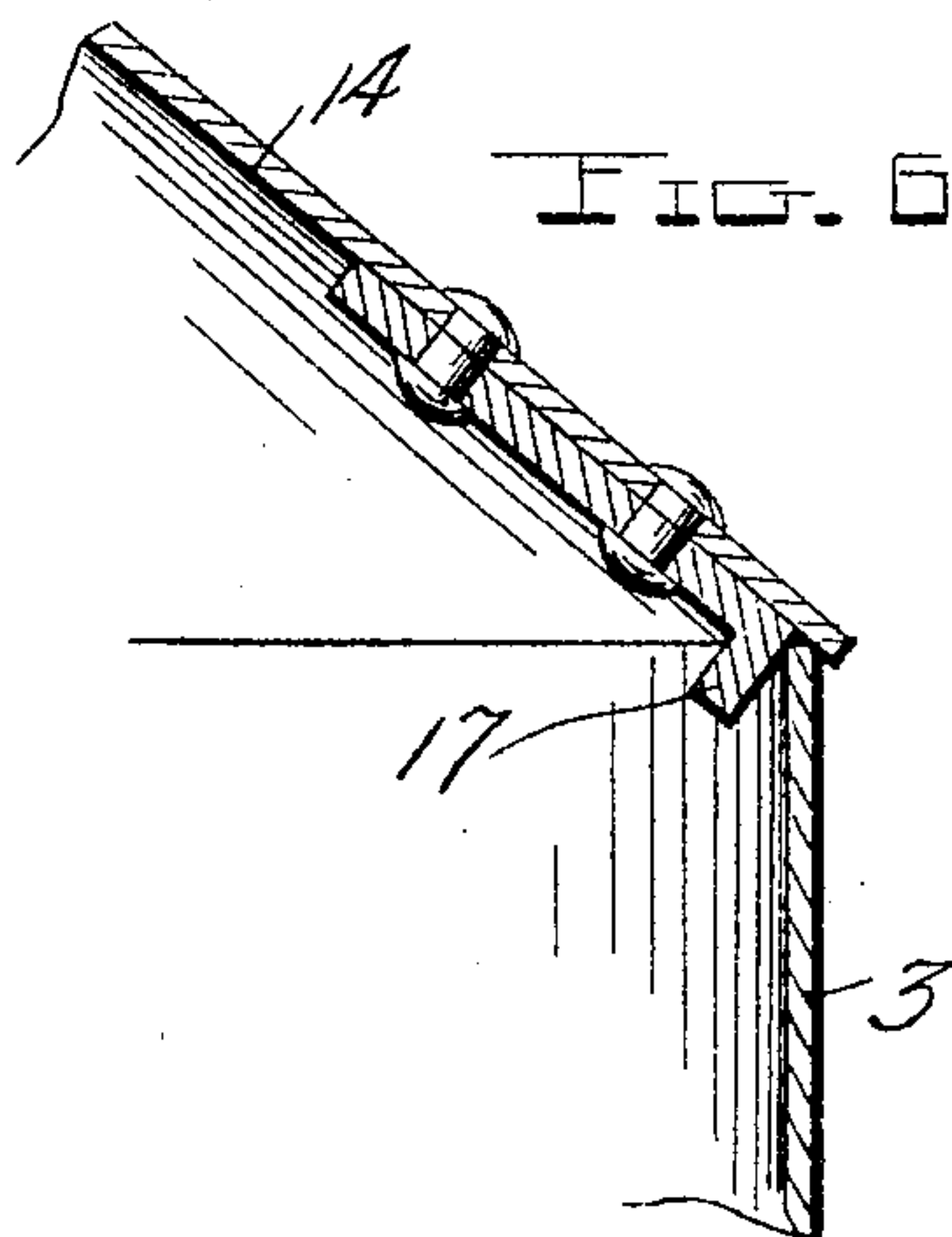


FIG. 3



Witnesses

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2 SHEETS—SHEET 2.

FIG. 3

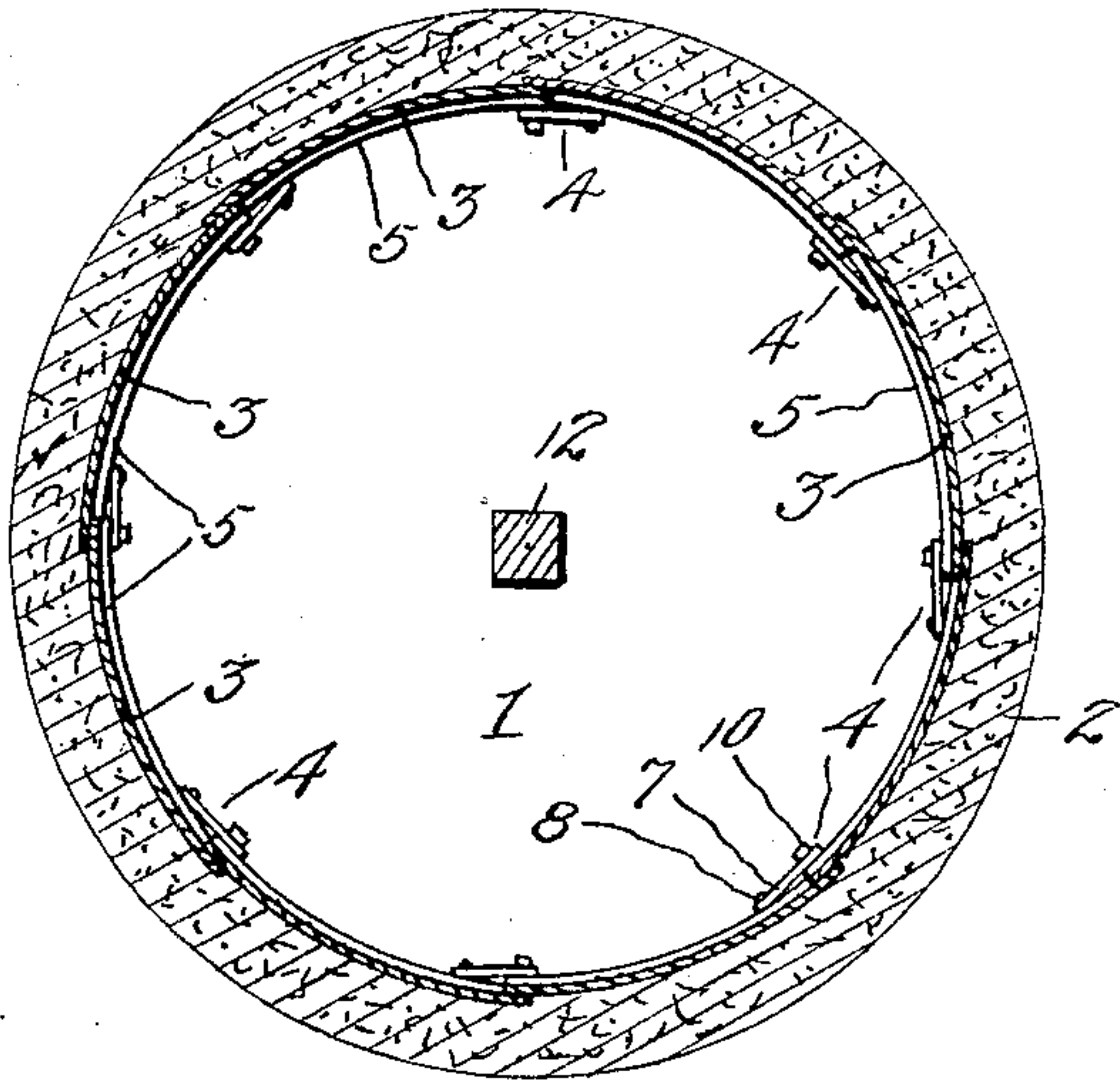
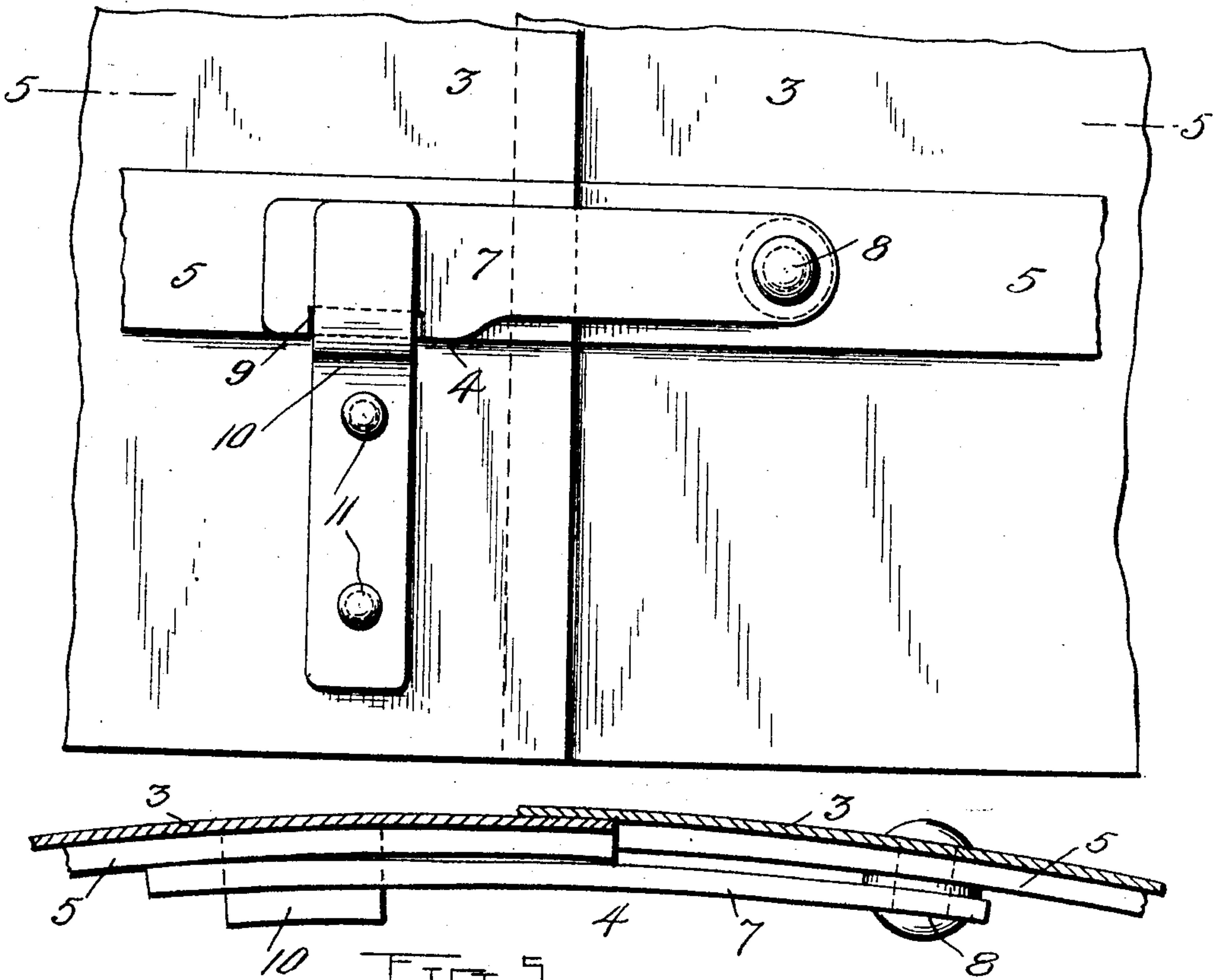


FIG. 4



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM H. LUCAS, OF NEWARK, OHIO.

MOLD.

No. 805,655.

Specification of Letters Patent.

Patented Nov. 28, 1905.

Application filed July 17, 1905. Serial No. 270,074.

To all whom it may concern:

Be it known that I, WILLIAM H. LUCAS, a citizen of the United States, residing at Newark, in the county of Licking and State of Ohio, have invented certain new and useful Improvements in 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.

My invention relates to improvements in molds for making manholes, catch-basins, cesspools, and the like from concrete or other plastic material.

The object of the invention is to provide a simple and efficient device of this character which may be quickly and easily set up for use and knocked down to permit its ready removal from the molded structure after the concrete has become set.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a vertical sectional view through a molded manhole with my improved mold therein. Fig. 2 is a top plan view of the same. Fig. 3 is a horizontal sectional view taken on the line 3 3 in Fig. 1. Fig. 4 is a side elevation of one of the latches and its keeper for securing the sections of the mold together. Fig. 5 is a sectional view taken on the line 5 5 in Fig. 4, and Fig. 6 is a detail sectional view showing the manner in which the top sections of the mold are supported upon the side sections.

In constructing a concrete manhole, catch-basin, cesspool, or the like with my improved sectional mold 1 a hole is made in the ground of greater size than the mold, so as to leave a space of sufficient width between the sides of the latter and the sides of the hole for the purpose of receiving the concrete or other plastic material 2. The body portion of the mold 1, which is here shown as cylindrical in form, is formed of a plurality of vertically-disposed side sections 3, each of which is curved or of segmental form and has its side edges overlapping the side edges of the adjacent sections, as clearly shown in Fig. 3 of the drawings. Any desired number of sections 3 may be provided, and they may be constructed in any size and of any material, sheet-steel being preferably employed.

The sections 3 are secured together by a series of latch devices 4, which are mounted upon reinforcing-bands 5, riveted or otherwise secured upon the inner faces of the sections 3. These bands 5 have one of their ends flush with one side of the section 3 and the other end terminating a short distance from the other edge of the said side section, so as to abut against the edge of the adjacent section 3 and its band 5, as clearly shown in Fig. 5 of the drawings. Each of the fastening devices 4 consists of a swinging latch 7, which is pivoted at 8 upon the band 5 and has a notched end 9, adapted to engage a keeper 10, which is riveted or otherwise secured, as shown at 11, upon an adjacent section 3.

Extending centrally through the center of the body portion of the mold is an upright or post 12, upon the upper portion of which is removably secured a support 13, which coacts with the upper ends of the side sections 3 to support the sections 14 of the top of the mold. The support 13 is here shown in the form of a circular disk or head provided with a collar 15, apertured to receive a fastening-pin 16, which also passes through an opening formed in the post or upright 12. The pin 16, which thus fastens the support 13 in position, is preferably attached to the same by a chain or other flexible connection to prevent it from being lost or misplaced. The top of the mold is of conical form, and each of its sections 14 tapers from its lower to its upper end. Their lower ends bear on the top edges of the side sections 3 and are retained thereon by stops 17, which are riveted upon the central portion of the under sides of the sections 14 and bear against the inner sides of the side sections 3, as clearly shown in Fig. 6 of the drawings.

In order to form the mouth or neck of the concrete structure, I provide inner and outer cylindrical collar-sections 18 19, which have their ends overlapping and secured by latches 20, as clearly shown in Fig. 2 of the drawings. The latches 20 are similar to the latches 7, the one upon the section 18 being upon its inner face and the one upon the section 19 being upon its outer face.

The construction, use, and advantages of my improved mold will be fully understood from the foregoing description, taken in connection with the accompanying drawings.

It will be seen that the mold may be quickly set up in the hole in which it is desired to mold a manhole or the like and that it may be as readily removed after the concrete or other ma-

terial from which the manhole is formed has become set. In removing the mold a few blows are struck upon the top of the upright or post 12 in order to loosen the pin 16, which
5 may then be readily removed to permit the support 13 to drop. As the latter is lowered the top sections 14 may be readily removed, and the side sections 3 may then be removed by swinging the latches 7 out of engagement
10 with their keepers 10.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of
15 this invention.

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

1. The herein-described mold comprising a
20 plurality of the side sections, each partly overlapping the next adjacent section at one edge, the band-sections on the inner sides of the side sections and disposed end to end and in abutting relation, the keepers secured each to one
25 of the side sections on the inner side thereof and having its upper portion extending across and spaced from the band-section on said side section, and the latches each pivoted at one end to the inner side of one of the band-sections

and disposed in the space between the
30 next adjacent band-section and the upper portion of the keeper adjacent thereto, said latches thereby engaging the several keepers, connecting the band-sections end to end and extending across the joints between their abutting
35 ends.

2. The herein-described mold comprising, in connection with the body portion, a top of conical form to bear on the upper edge of the body portion and composed of separable mem-
40 bers and the angle-stops on the under sides of said separable members to engage the inner side of the body, at the upper edge thereof, the inner neck member bearing on the top, the latter having the opening in its center, the up-
45 right projecting upwardly through said opening, and the head slidable on said upright, adjustably connected thereto and bearing under the top to support the upper portion of the latter, the said top extending inwardly from
50 said neck-section.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM H. LUCAS.

Witnesses:

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D. M. KELLER.