

No. 661,454.

Patented Nov. 6, 1900.

L. D. LAWNIN.
WATER CLOSET.

(Application filed Apr. 27, 1900.)

(No Model.)

Fig. I.

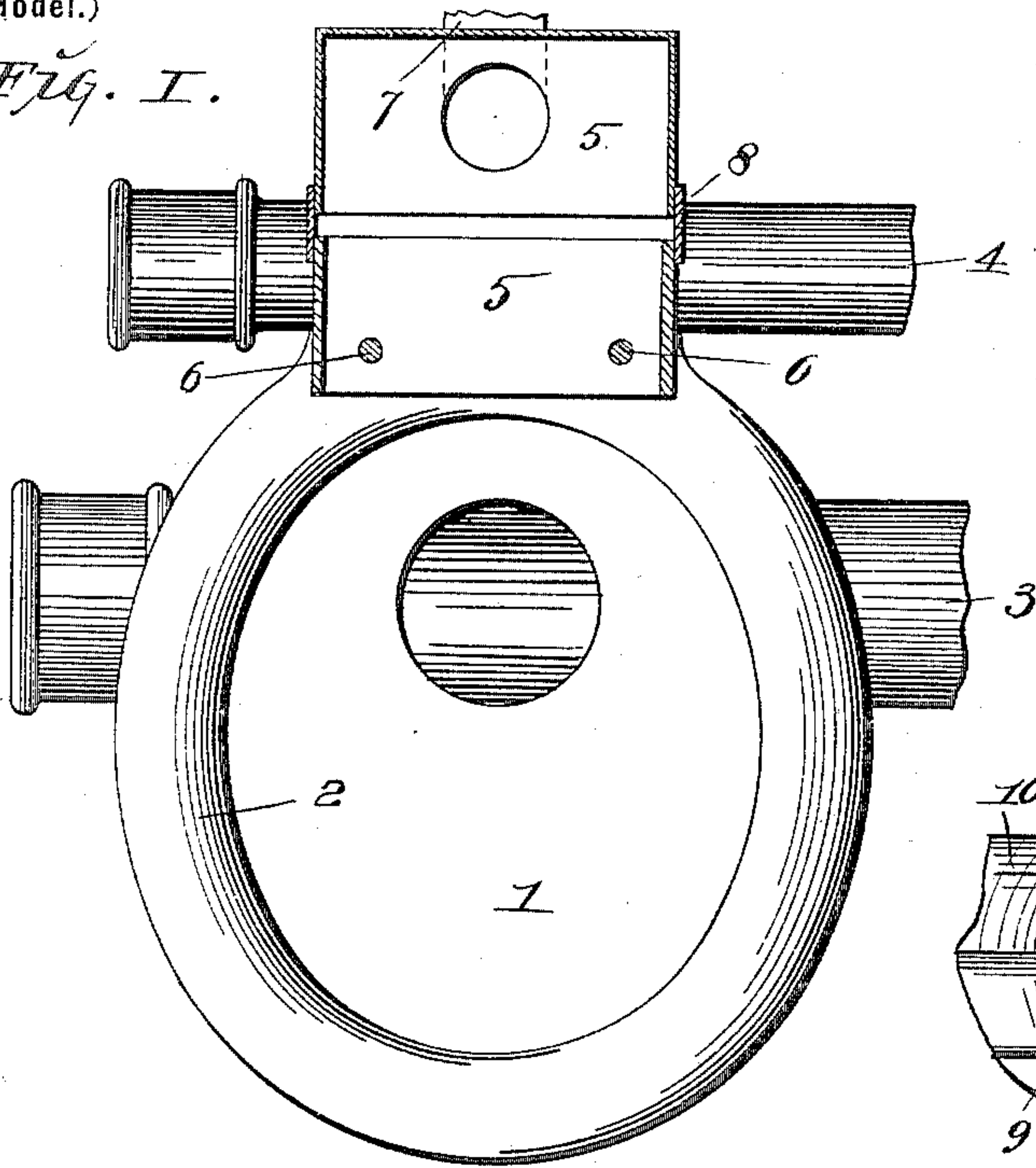


Fig. III.

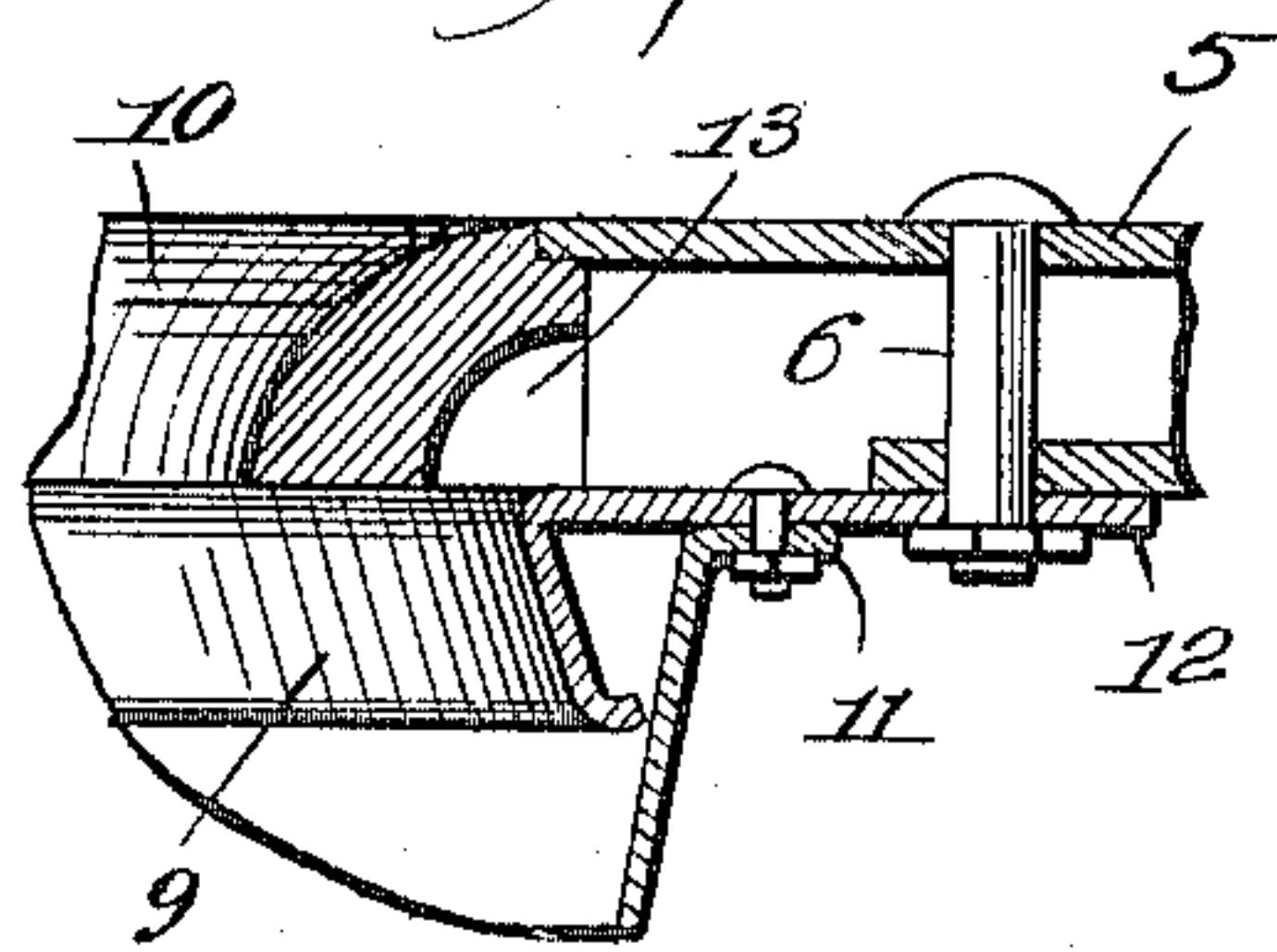
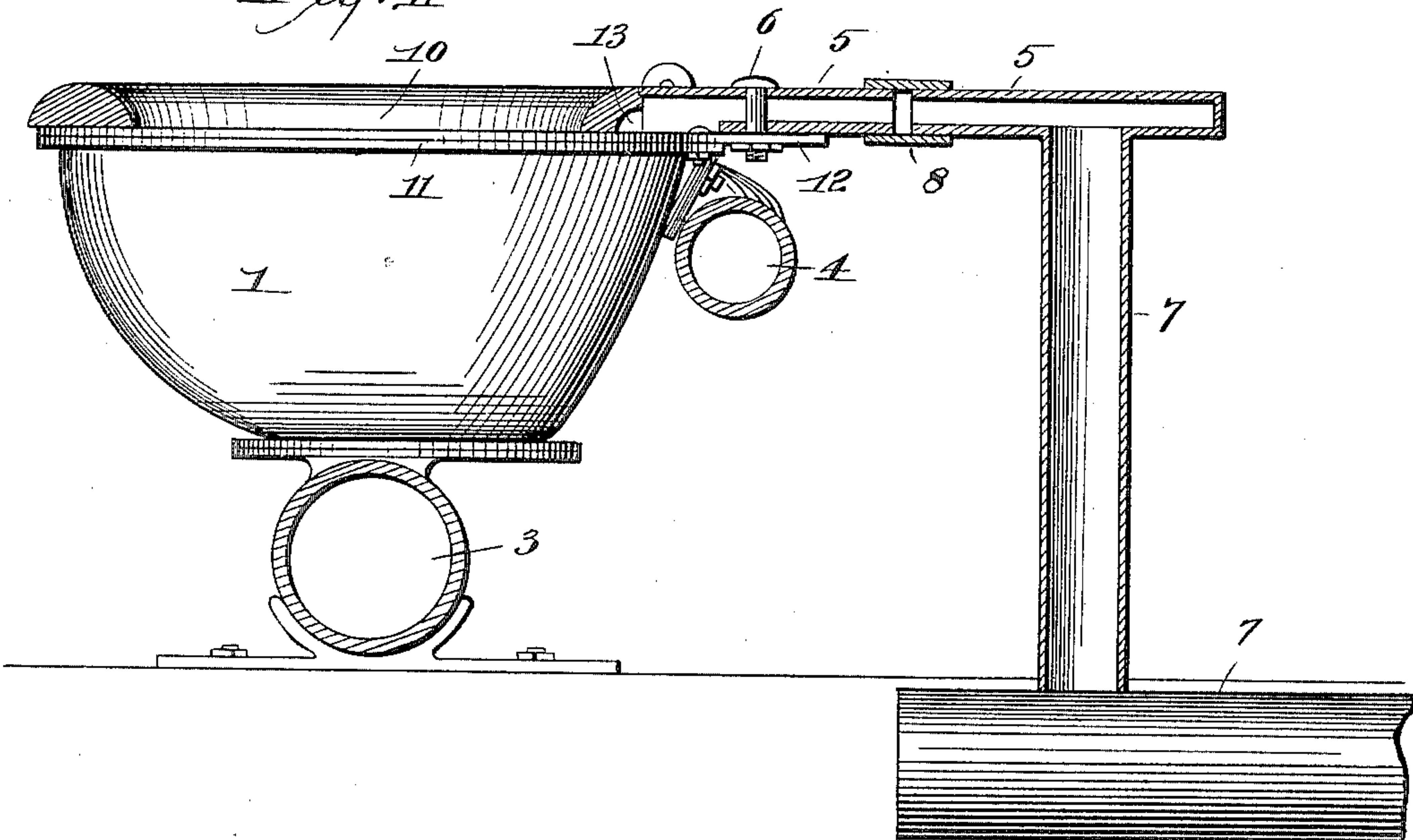


Fig. II



attest:
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UNITED STATES PATENT OFFICE.

LOUIS D. LAWNIN, OF EDWARDSVILLE, ILLINOIS, ASSIGNOR TO THE N. O. NELSON MANUFACTURING COMPANY, OF ST. LOUIS, MISSOURI.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 661,454, dated November 6, 1900.

Application filed April 27, 1900. Serial No. 14,528. (No model.)

To all whom it may concern:

Be it known that I, LOUIS D. LAWNIN, a citizen of the United States, residing at Edwardsville, in the county of Madison and State of Illinois, have invented certain new and useful Improvements in Water-Closets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to an arrangement for ventilating the bowl of a water-closet above the traps, the construction being such that it can be applied either to a metal or porcelain bowl and which is inexpensive in itself and can be inexpensively applied.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a top or plan view of a porcelain bowl with my invention applied, the ventilator being shown in horizontal section. Fig. II is a side view of an iron bowl, the ventilator being shown in vertical section. Fig. III is an enlarged detail vertical section of the bowl and ventilator shown in Fig. II.

Referring to the drawings, 1 represents a bowl which, *per se*, may be of any ordinary style now in the market and may be either a porcelain bowl, Fig. I, or an iron bowl, Fig. II.

In Fig. I, 2 represents the flush rim of the bowl, 3 the soil-pipe, and 4 the supply-pipe, through which water passes to the bowl through the rim, as usual. Located on top of the rim is a ventilating box or duct 5, which I have shown secured to the bowl by bolts 6. This box connects with a pendent vent-pipe 7, and I have shown the box made in two parts connected together by a slip-band 8, so that the box can be adjusted in length somewhat for convenience in setting the parts up.

The ventilating-duct takes the foul air from the bowl, and, being located above the flushing-rim, no water can enter it from the bowl.

In Fig. I, I have not shown the seat nor the cover of the bowl.

In Fig. III, 9 represents the inside wall of the flushing-rim, and 10 the seat of the bowl. The flushing-rim is bolted to an annular flange 11 on the bowl, and at the rear of the bowl the rim has an extension 12, to which the ventilating duct or box 5 is bolted. The seat is cut out at 13, so as to provide a vertical passage for the air from the bowl into the duct or box, so that when the seat is down and is covered there will be a free circulation from the bowl into and through the vent-duct.

I claim as my invention—

1. A water-closet comprising a bowl having an annular flange, the flushing-wall having an inside rim and a rear extension and bolted to the annular flange of the bowl, a seat cut away at the rear part to provide a vertical air-passage, and a ventilating box or duct with which the vertical air-passage communicates, and which is bolted to said extension and with which communicates a vent-pipe.

2. A water-closet comprising a bowl having an annular flange, the flushing-wall having an inside rim and a rear extension and bolted to the annular flange of the bowl, a seat cut away at the rear part to provide a vertical air-passage, a horizontal two-part ventilating box or duct with which the vertical air-passage communicates, bolted to the extension and having a pendent vent-pipe, and means for connecting the two parts of the ventilating box or duct.

LOUIS D. LAWNIN.

In presence of—

W. R. RAYMOND,
C. A. GEERS.