

J. E. HEWITT.

CISTERN COVER.

APPLICATION FILED JAN. 28, 1910.

979,004.

Patented Dec. 20, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

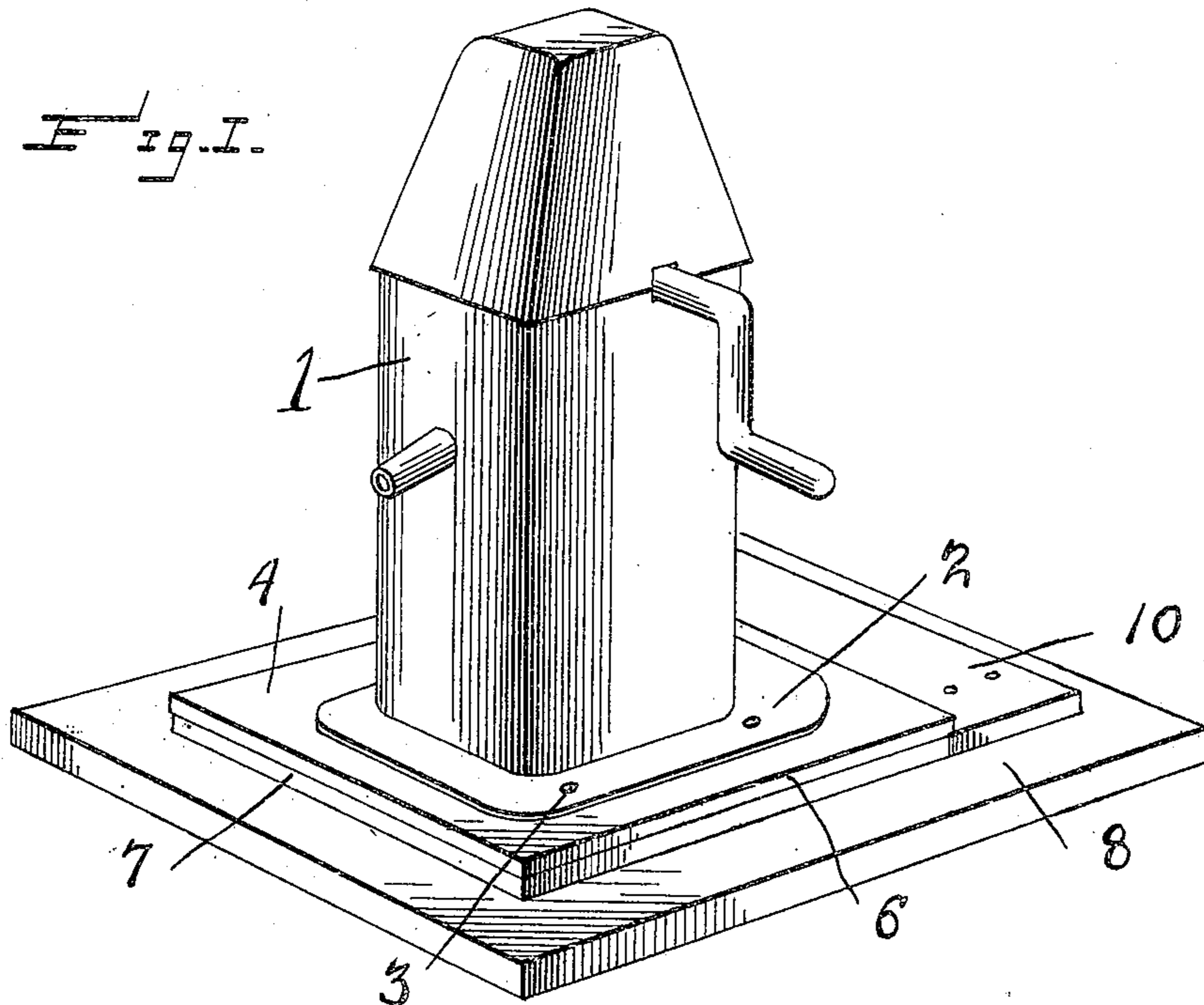
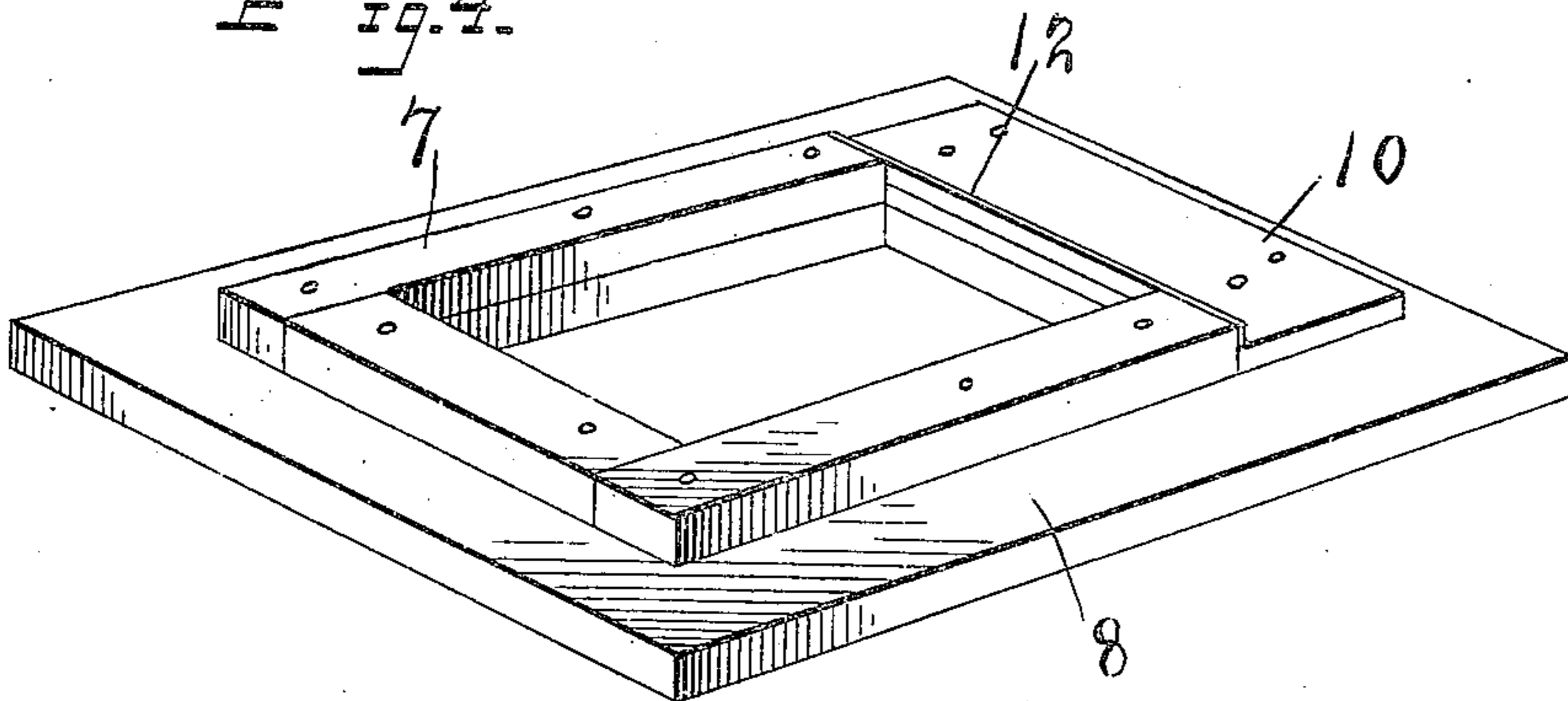


Fig. 2.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

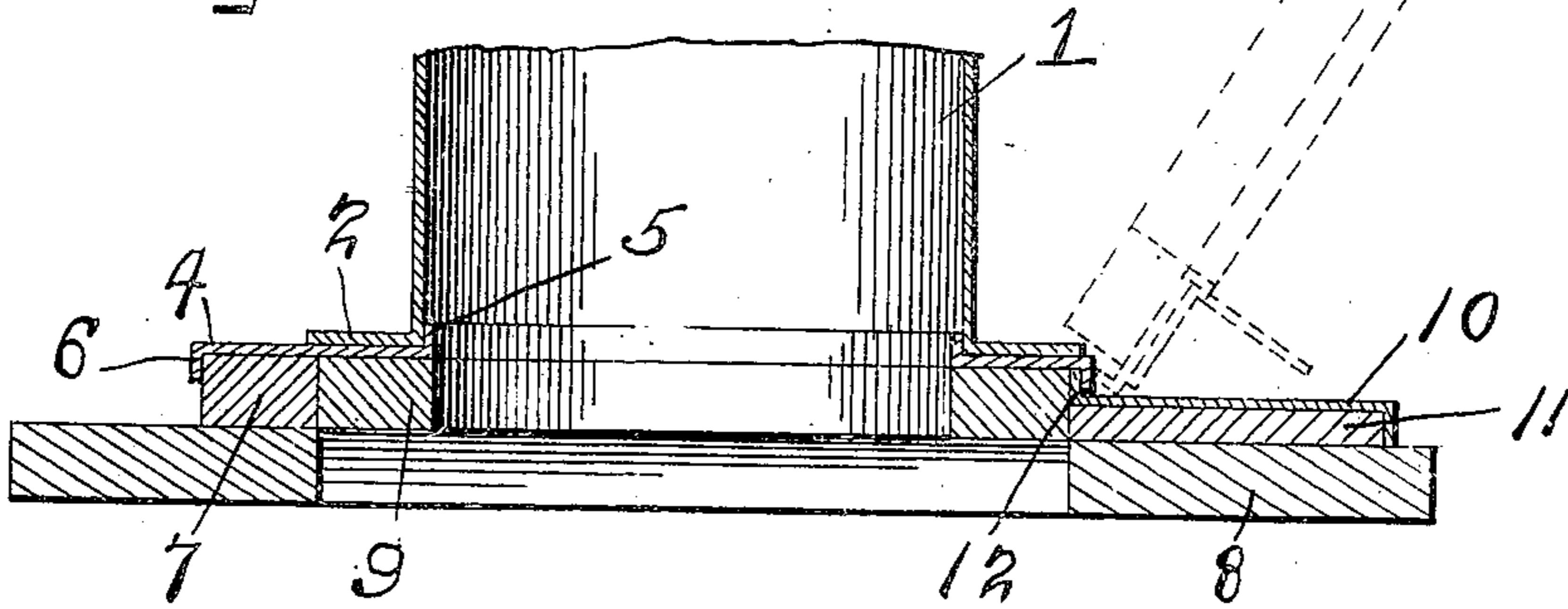


Fig. 3.

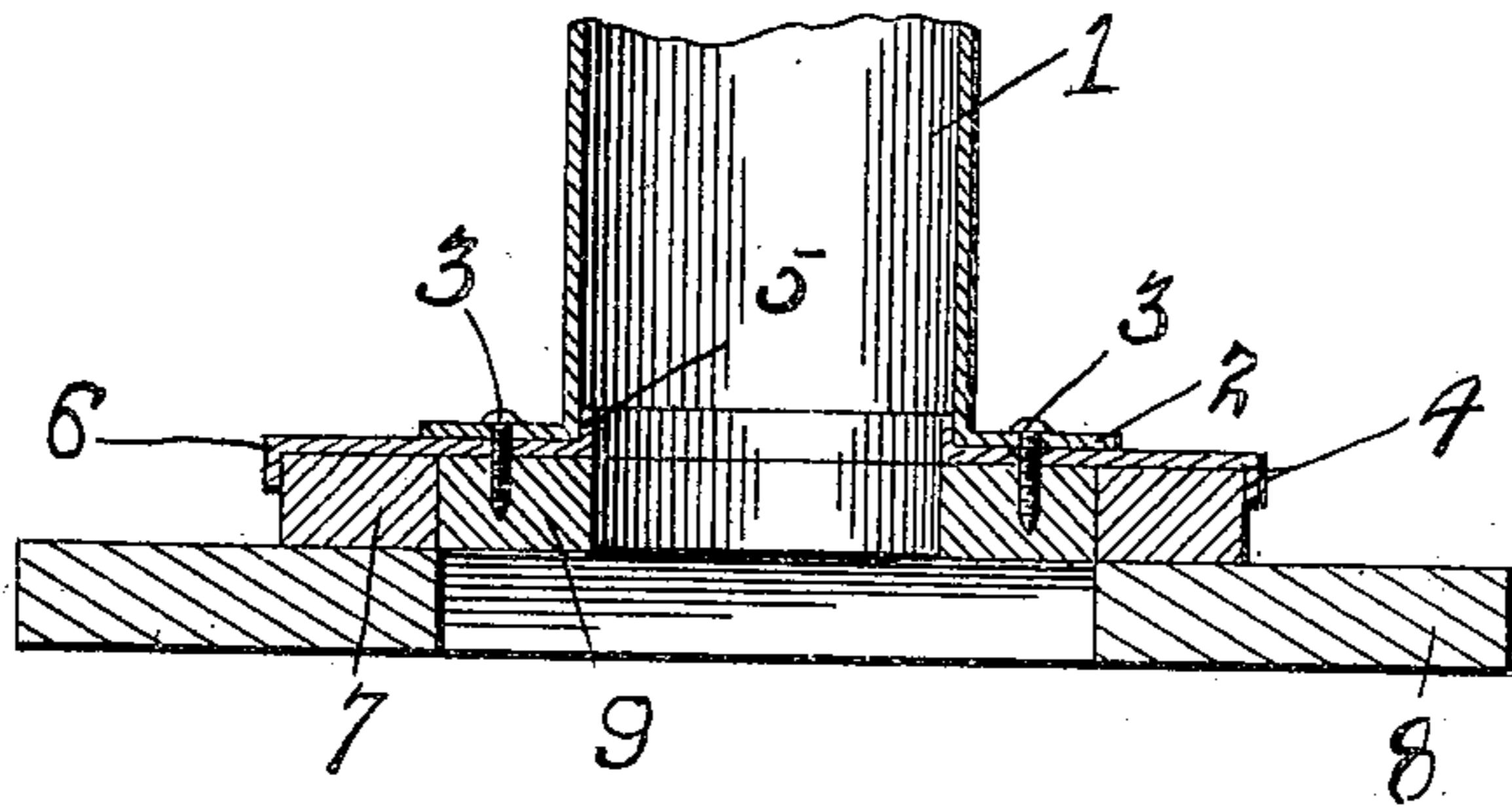
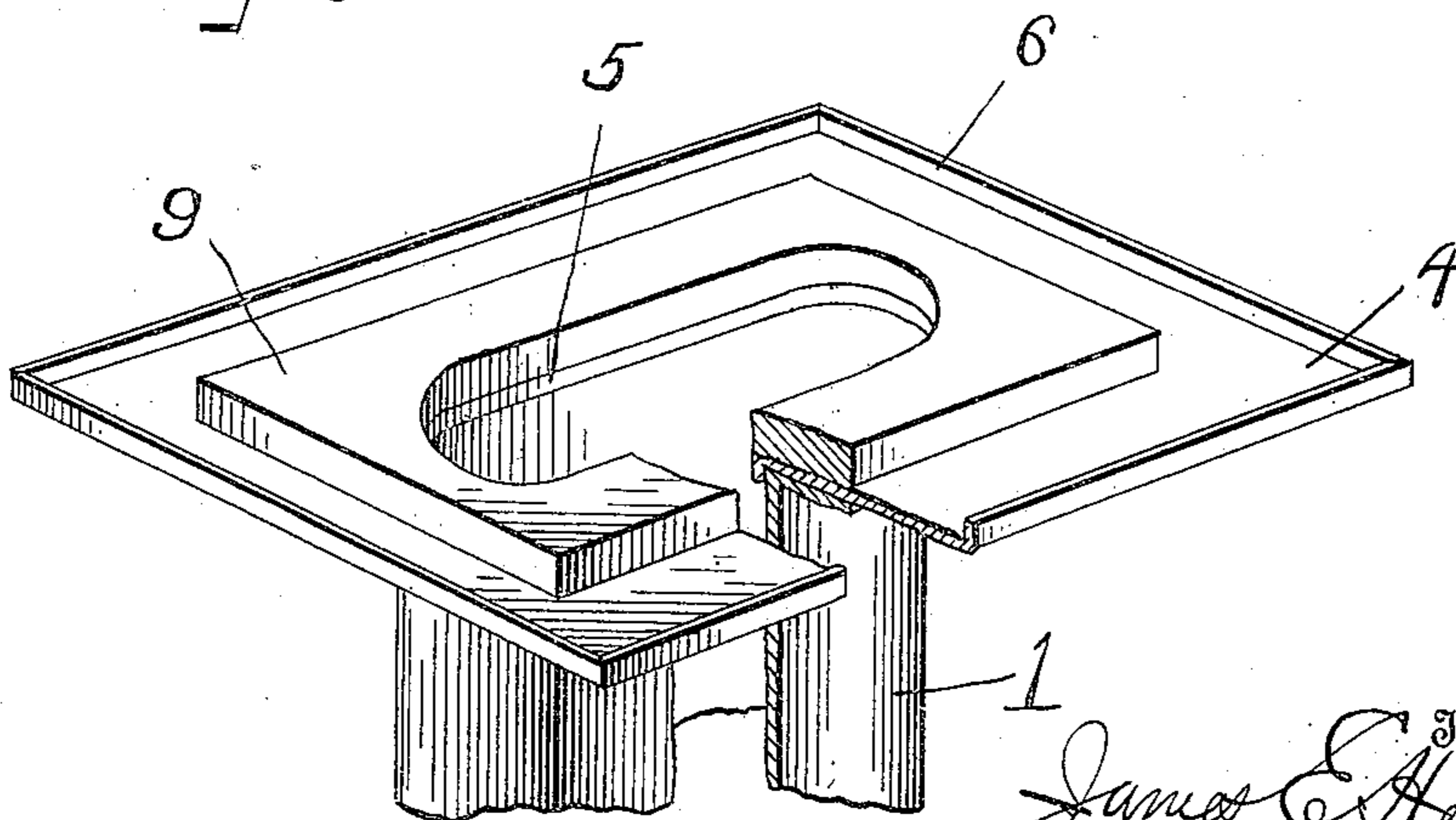


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES E. HEWITT, OF LEAGUE CITY, TEXAS.

CISTERN-COVER.

979,004.

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Patented Dec. 20, 1910.

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To all whom it may concern:

Be it known that I, JAMES E. HEWITT, a citizen of the United States, residing at League City, in the county of Galveston and State of Texas, have invented certain new and useful Improvements in Cistern-Covers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in covers for cisterns, wells, and the like, and more particularly to an improved joint or connection for the casing of a pump.

The object of the invention is to provide a simple and inexpensive device of this character which will be dust and dirt proof and entirely sanitary, and in which the cistern pump body will be so mounted that it may be swung back to one side to permit of ready access to the cistern or well and the pump mechanism for cleaning or repairing purposes.

With the above and other objects in view, the invention consists of the novel construction, combination and arrangement of parts, hereinafter fully described and claimed, and illustrated in the accompanying drawings in which:—

Figure 1 is a perspective view of a pump connected to my improved cistern cover; Figs. 2 and 3 are detail vertical longitudinal and transverse sectional views; Fig. 4 is a perspective view of the lower stationary portion of the cover and Fig. 5 is a bottom perspective view of the upper swinging section of the cover.

Referring more particularly to the drawing 1 denotes a body or casing of a pump of any form and construction, the one illustrated being an ordinary crank operated chain pump commonly used in cisterns and wells. This casing is of elongated cylindrical shape and has at its bottom an outwardly projecting attaching flange 2, which latter is adapted to be detachably secured by screws, bolts or similar fastenings 3 to the upper swinging section 4 of my improved cover. This section is preferably formed from sheet metal and is of rectangular shape, its central portion having an opening of a size corresponding to the opening in the pump body or casing 1, and the edge of said opening being upturned to form a surrounding flange 5 which projects into the casing 1 so that water, dust, dirt and other

foreign matter can not enter the cistern beneath the flange 2.

The four edges of the cover section 4 are downturned to provide flanges 6, which latter engage the outer edges of an upstanding rim or collar 7 provided around an opening in a lower cover section 8, which latter may be the ordinary wooden top of a cistern or well and the surrounding collar or rim 7 is also preferably made of wood, white lead or other thick paint being used to render the connection between the parts 7, 8, watertight so that water, dirt or other fine matter can not work into the well beneath the collar 7. The downturned or depending flanges 6 on the cover section 4 prevent dirt and fine matter from working up over the collar 7 and entering the cistern or well, but to further insure a sanitary connection between the two cover sections, and also to give the upper cover section and pump casing a firm bearing on the lower cover section so that the upper one can not shift horizontally, I provide upon the under face of the cover section 4 a continuous depending flange 9 which surrounds the central opening in said section and is adapted to enter within the collar or rim 7 and engage the inner face of the same. The depending flange 9 may be made of wood if desired, and may be secured by the screws or fastenings 3 which unite the pump casing to the cover section 4.

In order to permit the pump to be frequently swung over to a horizontal position to permit of access to the cistern or well and pump mechanism for cleaning or repairing purposes, I reduce the height of one end of the collar 7 and secure upon it a sheet metal joint or hinge plate 10. The two ends of the outer side of the plate 10 have their edges downturned to engage the corresponding edges of the reduced end piece 11 of the collar 7, while the inner side edge of the plate 10 is bent upwardly to engage the depending flange 6 on the corresponding end of the metal cover 4. This construction provides a durable hinge connection or joint between the two cover sections which will permit the upper one 4 to swing backwardly on the flange 12 of the plate 10 of the lower cover section 8, thereby permitting free access to the cistern and pump. By making the parts 10, 12, 4, of metal it will be seen that the cover may be frequently opened

with little or no wear on said parts, consequently the life of the cover will be very great. The peculiar construction of the cover sections not only renders the device
5 exceedingly inexpensive as well as strong and durable, but also enables the cover to be quickly opened without losing any bolts or other fastening devices.

Having thus described the invention what
10 is claimed is:

1. A well or cistern cover comprising a lower stationary section having an opening, an upstanding collar surrounding the opening, a plate secured on one end of said cover
15 and having its inner edge formed with an upturned flange, an upper swinging cover section having a central opening formed with its edge upturned to provide a surrounding flange to enter the casing or body
20 of the pump, the outer edges of said swinging cover section being downturned to engage the outer edges of said collar, the depending flange at one end of the swinging cover section being adapted to engage the
25 flange of said plate, whereby the swinging cover section may be swung upwardly on said plate, and a depending flange on the bottom of the swinging cover section surrounding the opening in said swinging cover
30 section and adapted to enter the collar on the stationary cover section.

2. A well or cistern cover comprising a

lower stationary section having an opening, an upstanding collar surrounding the opening, a plate secured on one end of said cover
35 and having its inner edge formed with an upturned flange, the other edges of said plate being downturned, a pump body or casing having an outwardly extending base flange, a swinging cover section consisting
40 of a plate formed with a central opening having its edge upturned to provide a flange to enter the pump body or casing, the outer edges of the swinging cover section being
45 downturned to engage the outer edges of the collar on the stationary cover section, the flange at one end of said swinging cover section being engaged with the upturned flange
50 of the plate on the stationary cover section, whereby the swinging cover section may be swung upwardly on said plate, a depending flange on the under face of the swinging
cover section surrounding the opening therein and adapted to enter the collar on the stationary cover section, and fastenings uniting
55 the last mentioned depending flange, the swinging cover section plate and the flange on the pump body or casing.

In testimony whereof I hereunto affix my
signature in the presence of two witnesses. 60

JAMES E. HEWITT.

Witnesses:

J. E. ROSS,

D. C. WHEELER.