

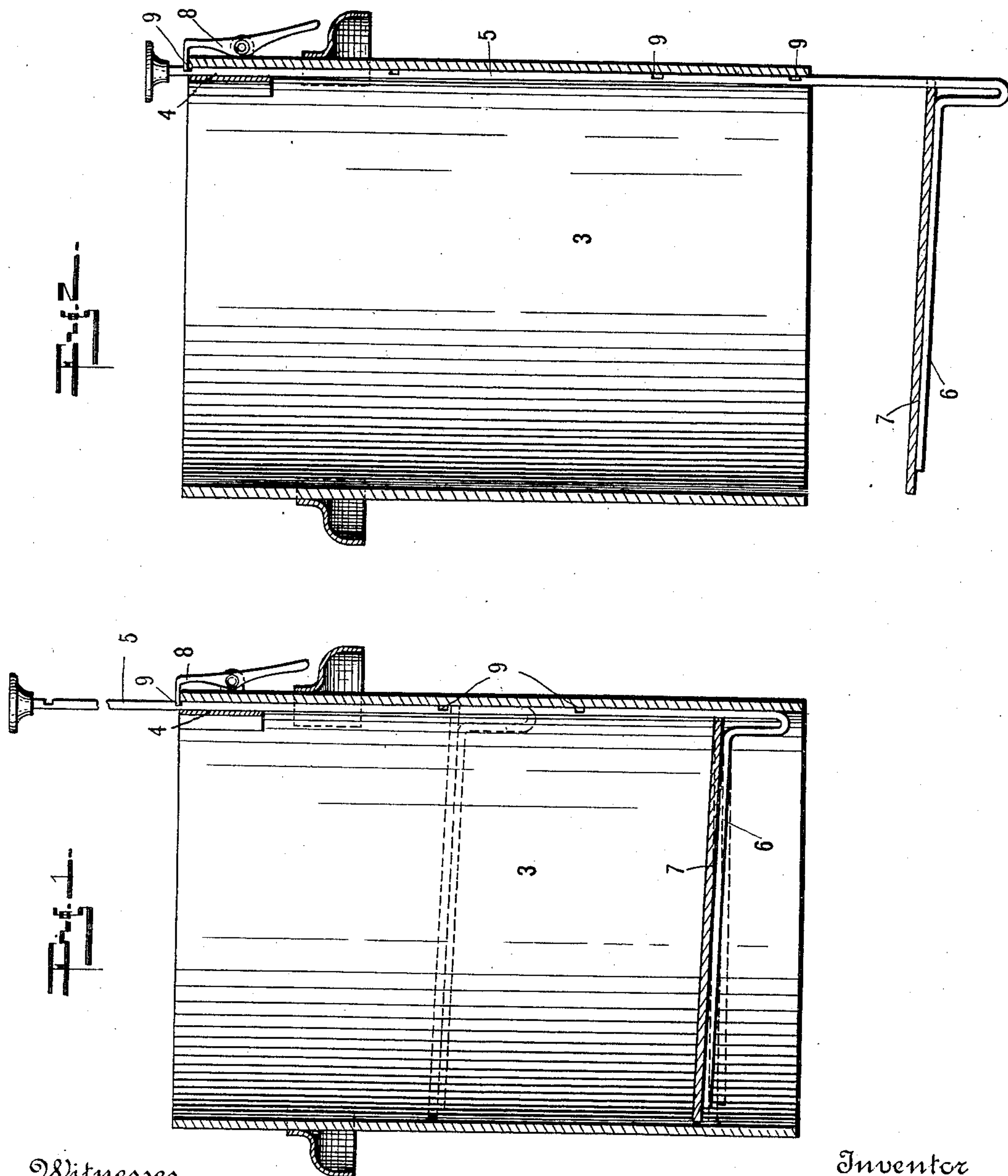
No. 686,807.

Patented Nov. 19, 1901.

S. D. FRY.
MEASURING VESSEL.

(Application filed Dec. 31, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

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MEASURING VESSEL.

SPECIFICATION forming part of Letters Patent No. 686,807, dated November 19, 1901.

Application filed December 31, 1900. Serial No. 41,567. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN D. FRY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Adjustable Measuring Vessel, of which the following is a specification.

My invention relates to an improvement in means for bulk measurement.

10 The object of my invention is to produce a vessel or receptacle the capacity of which may be varied from maximum to minimum in accordance with the desires of the operator.

A further object of my invention is to produce a receptacle from which material placed therein may be discharged from the bottom instead of from the top, as is now customary.

The accompanying drawings illustrate my invention.

20 Figure 1 is a central vertical section of a measuring vessel embodying my invention. Fig. 2 is a similar section with the parts in discharging position.

In the drawings, 3 indicates a vessel of any desired form and without top or bottom. Longitudinally reciprocable through a bearing 4, carried by vessel 3, is a rod 5, which at its lower end is doubled upon itself and then turned outward to form an arm 6, to which is secured a plate 7, said plate being normally held with its free side slightly higher than the side adjacent rod 5. Mounted upon the vessel adjacent rod 5 is a catch 8, which is adapted to enter any one of a series of notches 9, formed in said rod, the arrangement being such that the distance of plate 7 from the top of the receptacle may be varied. Rod 5 is sufficiently long to enable plate 7 to be thrown out from the bottom of the receptacle, so that the material placed in said receptacle may be discharged from the bottom.

45 The measure described may be made in any desired size and shape; but a convenient form will consist of a cylindrical body having a maximum capacity of, say, half a

bushel. The notches 9 will then be so arranged in rod 5 that plate 7 may be adjusted so that the vessel will contain one peck, &c. As soon as the material is placed in the receptacle plate 7 yields slightly, the lower end of the rod being thrown into contact with the wall of the vessel, and thus forming a brace for the plate. When the operator desires to discharge the contents into a basket or other receptacle, he holds the measure over the receptacle and presses upon catch 8, so as to release rod 5, the weight of the material operating to move plate 7 downward through the receptacle and out of the lower end, thus allowing the material to be discharged directly into the receptacle.

I claim as my invention—

1. The combination with a receptacle, of an adjusting-rod mounted in said receptacle adjacent the wall thereof, a bottom plate secured at one side to said adjusting-rod and having its free side inclined upwardly, and means for holding said rod in any desired axial position, the arrangement being such that when a load is placed upon the bottom the free side thereof will be thrown down into engagement with the wall of the receptacle.

2. The combination with an open-ended receptacle, of a rod longitudinally movable therein and having its lower end adjacent the wall of the receptacle, a yielding arm extending from said rod, a bottom plate secured to said arm, and means for holding said rod in adjusted longitudinal positions.

3. The combination with a receptacle, of a rod 5 longitudinally movable therein and having its lower end adjacent the wall of the receptacle and doubled upon itself and bent to form an arm 6, a bottom plate secured to said arm, and a catch adapted to engage said rod and hold it in its adjusting positions.

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