

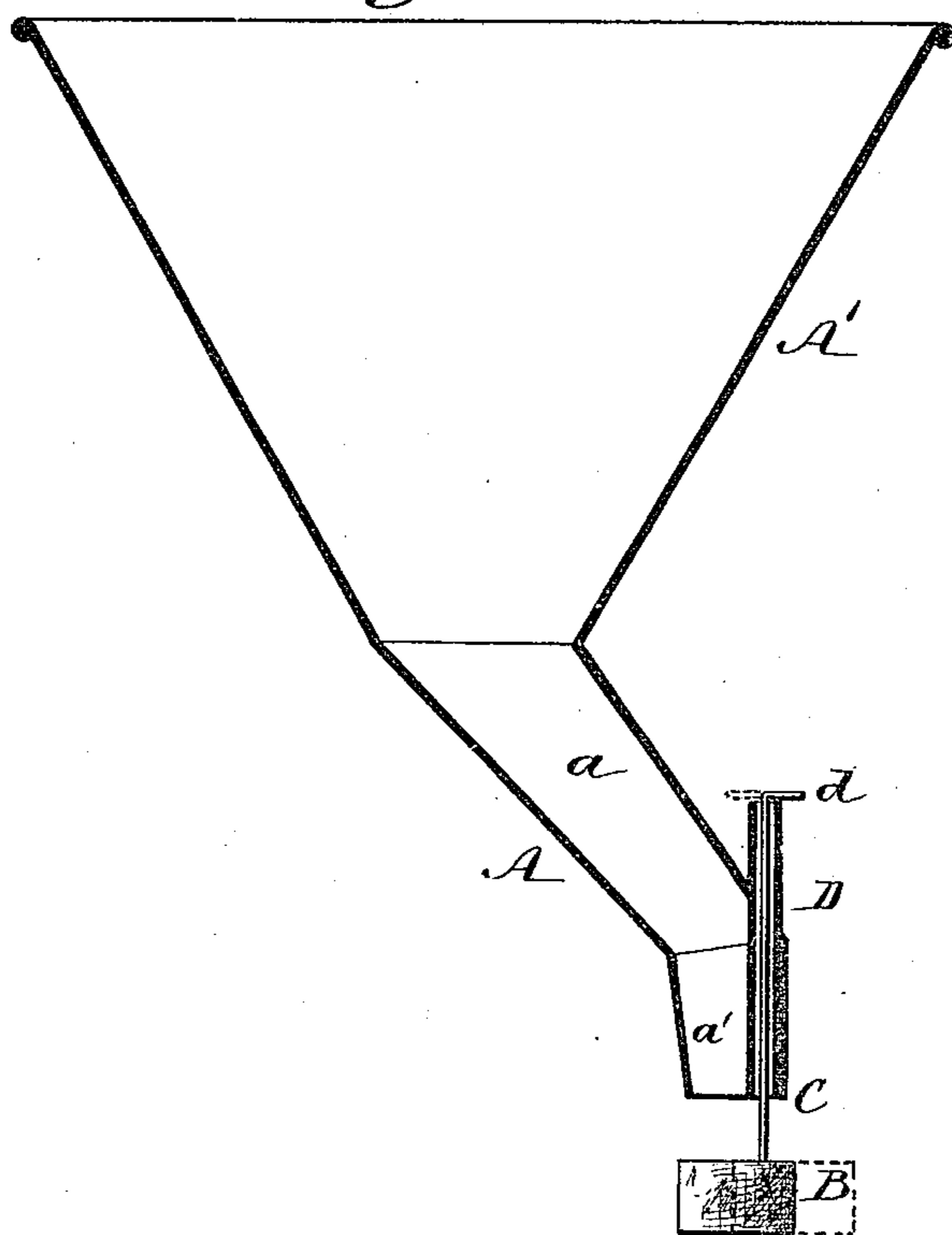
(No Model.)

W. R. COLE  
FUNNEL.

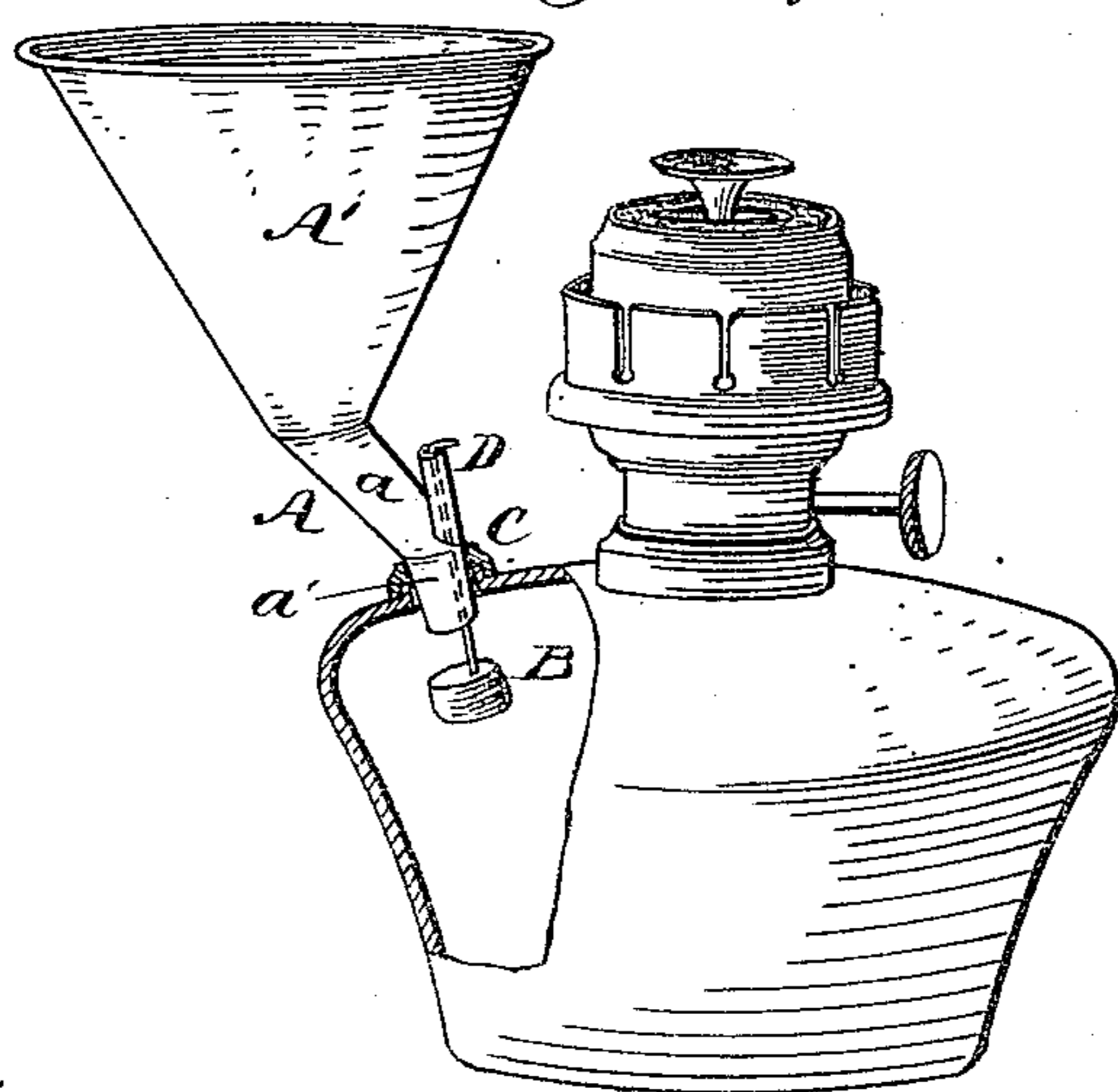
No. 442,857.

Patented Dec. 16, 1890.

*Fig. 1.*



*Fig. 2.*



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

WILLIAM R. COLE, OF POTTSVILLE, PENNSYLVANIA.

## FUNNEL.

SPECIFICATION forming part of Letters Patent No. 442,857, dated December 16, 1890.

Application filed December 17, 1889. Serial No. 334,029. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM R. COLE, of Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented a new and Improved Funnel, of which the following is a full, clear, and exact description.

My invention relates to a funnel designed particularly for filling lamps with oil, but may be used in any situation wherein the filling up of the vessel cannot be readily observed; and the invention consists, principally, in combining with the funnel tube or spout a float and indicator arranged to be lifted by the liquid when the vessel is full, or nearly so, the float being attached eccentrically to a rod movably attached to the spout.

The invention also consists in forming the funnel tube or spout with a bent main and straight point section, combined with the float-rod attached thereto and a float attached eccentrically to the rod.

The invention also consists of the special construction and combination of parts, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation of my invention, and Fig. 2 is a perspective view illustrating its use in filling a lamp.

The lower end of the funnel-tube A is provided with a float B, of cork or other suitable material, attached to the rod C, the upper end of which serves as the indicator. This rod or indicator is held loosely in a keeper or tube D, attached to or formed as a part of the funnel-tube, and the upper end of the said rod is bent to one side to form a handle *d* for turning the rod to turn the float B out of and also into line with the bottom of the tube A. The rod is attached to one side of the center of the float, so by turning the handle *d* in one direction the float may be held to one side of the inflowing stream and by turning it in the other direction it may be brought in line with the bottom of the funnel-tube, and held up in contact therewith to act as a stopper to stop

the flow or drip of the funnel. This eccentric arrangement of the float also adapts it to be brought in line with the end of the spout, so that it may be readily inserted in and removed from the aperture of the lamp or other article to be filled. After the spout has been inserted in the lamp, the valve-rod is turned so as to swing the valve to one side away from the mouth of the spout, thus giving free entrance for the oil into the lamp. The rise of the oil in the lamp will be indicated by the rise of the valve and its rod, and when the lamp is filled the valve-rod is operated so as to swing the eccentric-valve under the mouth of the spout, up against which the valve is then drawn, when the funnel with its contained oil may be removed and transferred to another lamp to fill the same. In this way a number of lamps may be expeditiously filled.

The top A' of the funnel is of the usual form; but the spout A is twice bent or made of two reduced sections *a a'*. The section *a* stands at an angle to the body A'. The point section *a'* is vertical when the top is in upright position. By this construction there is full clearance for the indicator-rod, and advantage is also gained in convenience in entering the indicator to the mouth or opening of the vessel to be filled.

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

In a funnel for filling lamps, the combination, with the receiving top or bowl A and the angular part *a*, of the vertical part *a'*, having eccentrically arranged therein a keeper-tube D, and a rotative valve-rod C, carrying a valve B, arranged eccentrically thereon, said rod being provided with means for rotating the rod and its eccentric-valve, thereby bringing the valve directly under the vertical part *a'* to close the same or throwing the valve aside away from the part *a'* to open the same, substantially as herein shown and described.

WILLIAM R. COLE.

Witnesses:

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