

A. W. P. LADD.
Self-Tapping Can-Funnel.

No. 203,924.

Patented May 21, 1878.

Fig. 2

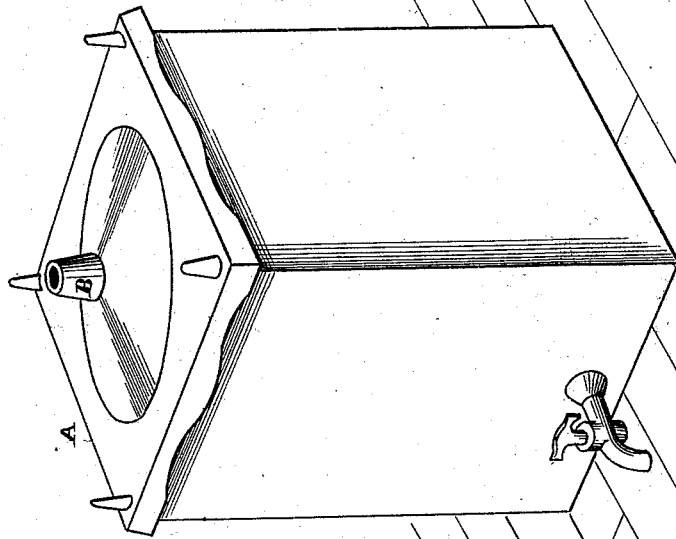
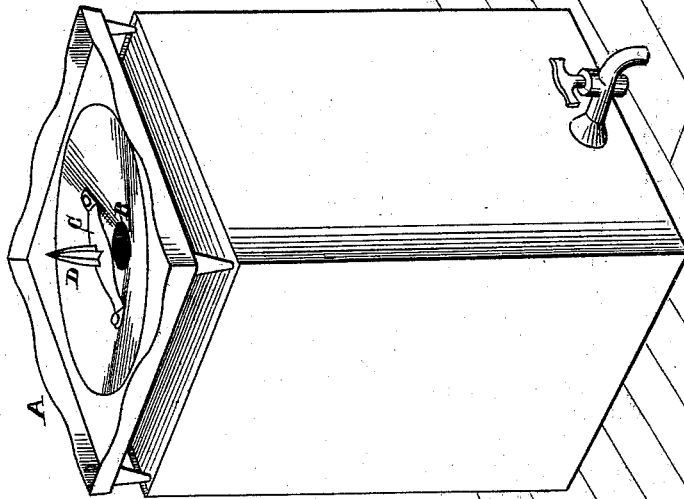


Fig. 1



Witnesses

Geo. H. Strong.
Frank A. Brooks

Arnaldo W. P. Ladd Inventor
by *Dewey & Co*
Attys.

UNITED STATES PATENT OFFICE.

ARNALDO W. P. LADD, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN SELF-TAPPING CAN-FUNNELS.

Specification forming part of Letters Patent No. **203,924**, dated May 21, 1878; application filed April 1, 1878.

To all whom it may concern:

Be it known that I, ARNALDO W. P. LADD, of the city and county of San Francisco, and State of California, have invented an Improved Self-Tapping Can-Funnel; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

My invention relates to an improved device which I call a "self-tapping can-funnel;" and it consists in the employment of a tapering or conical receiving-vessel having a suitable discharge spout or nozzle, and provided with a cutter or piercing device, so that a can may be placed upon it and its contents discharged into the funnel, and thence into a receiver which is placed below.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a perspective view of my invention standing on a can. Fig. 2 shows its use as a cover.

A is a rectangular or other shaped shallow dish, with its bottom forming a funnel or incline, having its smaller part or nozzle B of suitable size and shape to enter a mouth or opening in the top of a receiving-can or any other vessel required. This funnel or dish may be set upon supporting-legs, so as to stand conveniently above the receiver, as shown. A cross-bar, C, will be placed in the funnel, but will not obstruct the passage of any liquid running through the same. This cross-bar supports a vertical cutter or knife, D, of any suitable size or shape to pierce a can.

In the present case I have shown a cutter which is, in section, in the form of a cross, with four cutting-edges, so that it will cut a hole and open it out, so as to allow the contents of the pierced can to be discharged without further attention or enlarging the hole. I have shown the cutter and funnel centrally ar-

ranged; but as the ordinary cans usually have a cap or opening piece on one end near a corner, the knife D may be conveniently placed so that this cover will be pierced when the can is placed on the dish A, and this will enable us to preserve the can for further use, if desired. When centrally placed the can is simply set down into the receiving-dish A, when the bottom will be perforated and the contents will be discharged into the funnel. As the can fits into the dish no waste or escape of the liquid will take place by a too rapid discharge of the contents of the said can, and the flow will take place through its funnel-bottom to the receiving-vessel below.

This device may be of various sizes and shapes, and will be found convenient for tapping and emptying any cans that may contain coal-oil, turpentine, alcohol fluid, or, any material that will flow through a funnel. The funnel may be placed centrally or in a corner, as may be desired or most convenient; and after the can is emptied, the device A may be inserted upon the top of the fitted can, so as to serve as a protection and cover, as shown in Fig. 2, and the nozzle being corked, it will be perfectly tight.

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

The receiver A, with its inclined or funnel-shaped bottom, and discharge-nozzle B, in combination with the cutter or piercing device D, forming an automatic tapping and discharging apparatus, substantially as herein described.

In witness whereof I hereunto set my hand and seal.

ARNALDO W. P. LADD. [L. S.]

Witnesses:

FRANK A. BROOKS,
M. A. NEAL.