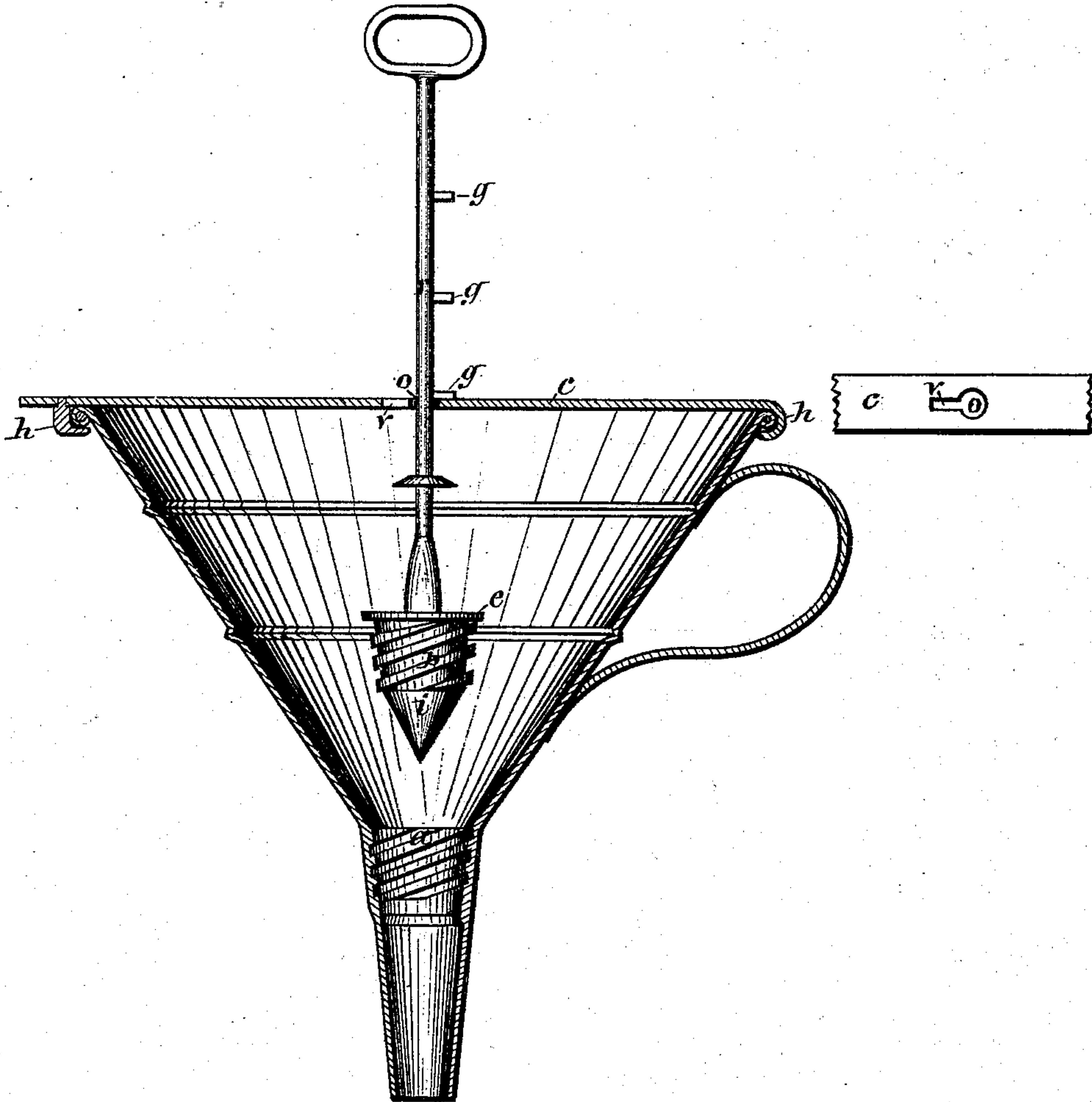


R. A. LANDON.
MEASURING-FUNNEL.

No. 170,093.

Patented Nov. 16, 1875.



WITNESSES

Christian Holmstrup Jr.
Chas. H. Hey.

INVENTOR

Reuben A. Landon
Jr. E. Laess Atty.

UNITED STATES PATENT OFFICE.

REUBEN A. LANDON, OF GEDDES, ASSIGNOR OF ONE-HALF HIS RIGHT TO
RICHARD A. DAVIS, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN MEASURING-FUNNELS.

Specification forming part of Letters Patent No. **170,093**, dated November 16, 1875; application filed
October 26, 1875.

To all whom it may concern:

Be it known that I, REUBEN A. LANDON, of Geddes, in the county of Onondaga, in the State of New York, have invented a new and useful Improvement in Combined Tunnels and Measures, of which the following, taken in connection with the accompanying drawing, is a full, clear, and exact description.

My invention relates to improvements in that class of tunnels having the top portion constructed to form a measure, and the outlet or spout provided with a valve.

The object of this invention is to more completely prevent leakage of the measure through the spout; also, to render the apparatus readily detachable from the tunnel when required for ordinary use, and also to reduce the expenses in the manufacture of same.

For the purpose of accomplishing all this I construct my improved combined tunnel and measure in the manner hereinafter described.

The accompanying drawing represents a transverse vertical section of a tunnel with my improvements applied, and a top view of that portion of the cross-bar in which the rod slides, showing the aperture, with its lateral slot.

a are the screw-threads in the spout or outlet, which, in tunnels for ordinary use, may be formed by indentation in the tin. *b* is the screw-plug, having corresponding screw-threads, and provided with a cone-shaped point or guide, *i*, made of wood, rubber, or other material, for the purpose of protecting the screw-thread in the spout, and a collar, *e*, on top, forming a close joint with the outlet. *r* is a rod attached to the aforesaid screw-plug, and provided with one or more spurs or projections, *g*, in proper positions to indicate various capacities of the measure when the outlet is closed, and which, in combination with the cross-bar, hereinafter described, serve as supports for the screw-plug when raised. *c*

is a cross-bar, provided with hooks *h h* at the ends, which engage a flange around the top of the tunnel, and easily detached therefrom by sliding the bar *c* away from the center of the tunnel. *o* is an aperture in the cross-bar *c*, in which the rod *r* slides vertically; and *v*, a slot on the side of said aperture, for the passage of the combined gages and supports *g* on the side of the rod.

It will be observed that the screw-plug, with its collar, is safer for preventing leakage of the various liquids than an ordinary valve or stopper, and that the means for operating the same are durable and simple in construction, and also that my apparatus is readily detached from the tunnel when required for ordinary use.

I am aware that measuring-tunnels have been constructed with a valve at the outlet and gages for measuring various quantities, and therefore do not claim the same broadly; but

What I do claim as new, and desire to secure by Letters Patent, is—

The combination, with a tunnel, of the screw-threads *a* in the outlet, screw-plug *b*, having the point or guide *i* and collar *e*, the rod *r*, provided with one or more combined gages and supports, *g*, and the detachable cross-bar *c*, provided with aperture *o*, having lateral slot *v*, all constructed to operate substantially as described and shown, for the purpose specified.

In testimony whereof I have signed my name and affixed my seal in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga and State of New York, this 20th day of October, 1875.

R. A. LANDON. [L. S.]

Witnesses:

CHRISTIAN HOLMSTRUP, Jr.,
CHAS. H. HEY.