

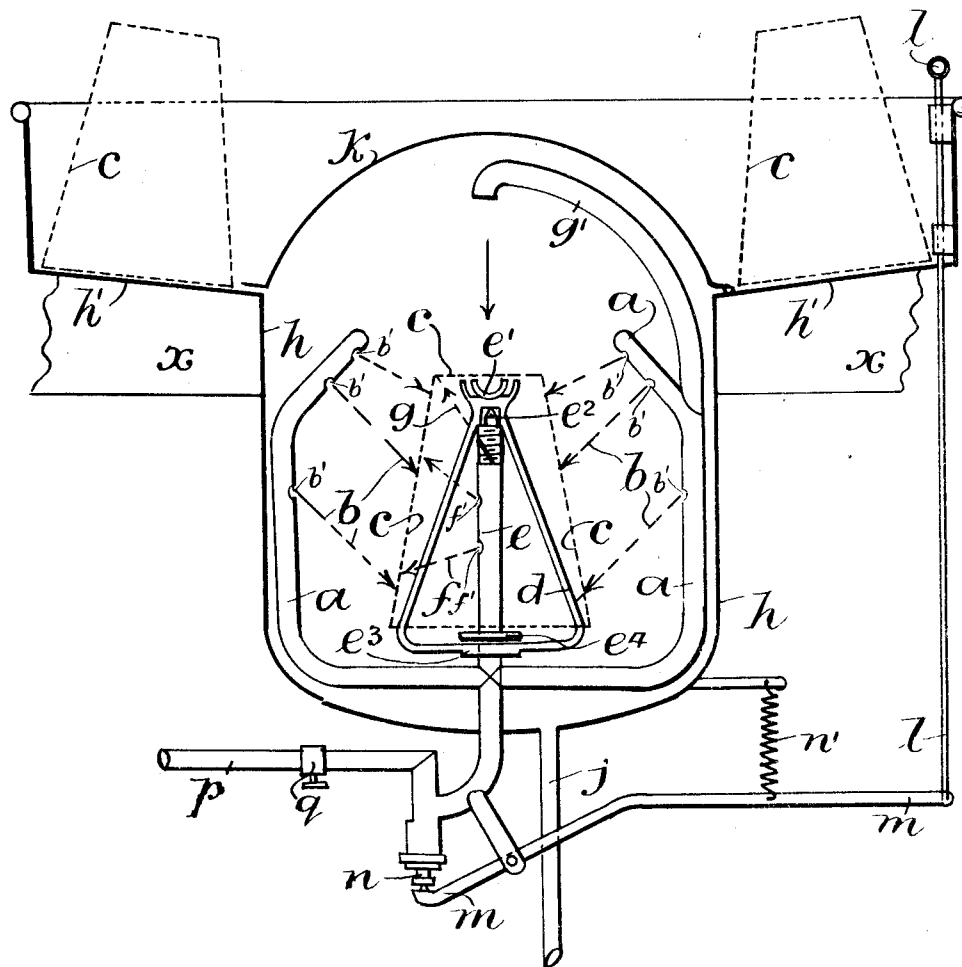
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TURBINE WASHER FOR DRINKING GLASSES AND OTHER VESSELS.

APPLICATION FILED JULY 1, 1911. RENEWED OCT. 3, 1912.

1,051,669.

Patented Jan. 28, 1913.



Witnesses:

*[Signature]*  
*[Signature]*

Inventor:

*Frederick Boesser*  
by *[Signature]*  
*Mus & Norm D.*  
Atty.

# UNITED STATES PATENT OFFICE.

FREDERICK BOESSER, OF PERTH, WESTERN AUSTRALIA, AUSTRALIA.

TURBINE-WASHER FOR DRINKING-GLASSES AND OTHER VESSELS.

1,051,669.

Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed July 1, 1911, Serial No. 636,480. Renewed October 3, 1912. Serial No. 723,813.

*To all whom it may concern:*

Be it known that I, FREDERICK BOESSER, a subject of the King of Great Britain, and residing at Perth, Western Australia, Commonwealth of Australia, have invented certain new and useful Improvements in Turbine-Washers for Drinking-Glasses and other Vessels, of which the following is a specification.

The object of my invention is to provide a semi-automatic device for cleansing drinking glasses and other such like vessels in a running stream of water and in which such cleansing is simultaneously effected both on the outside and inside surfaces of the glass with the result that the glass receives a positive and complete cleansing.

The device gives a turbine action so that the glass is spun or rotated during and by the washing process as the water jets are made to impinge or strike against the inner and outer surfaces in an oblique direction.

The glass is held in an inverted position on its frame and as soon as the water pressure is applied by the operator the glass is thereby made to spin around and thus be washed.

The construction and use of my turbine glass washer will be explained by the aid of the attached drawing showing by a sectional elevation the device as in its installed position on the counter as *a*.

In said drawing *a* are the fixed upstanding tubes of any number having perforations *b'* to effect the external spray action as denoted by the arrows. These jets or sprays *b* impinge or strike downward and sidewise at an oblique angle upon the outside of the glass *c*.

The glass is held in an inverted position on the skeleton spinning frame *d* which idly rotates upon the central fixed tube *e*. This frame is made with the crown *e'* upon which rests the glass and said frame hangs and rotates upon the center pivot *e''* which is screwed into the top of the tube *e* as shown. This frame has a lower guide *e'''* to hold it in position and against the flange *e''''* secured on the tube *e* so as to prevent it from rising up. The central tube *e* is also

made with holes or perforations *f'* for effecting the internal washing of the glass as denoted by the arrows, and from said holes water jets *f* are caused to strike at an oblique angle upon the inner surface of the glass *c* and act in conjunction with the outer jets *b* to clean the glass. An upwardly directed spray is also employed as *g* for washing the inside bottom surface while I also use a down or top jet as *g'* for washing the outer bottom surface of the inverted glass.

The washing action takes place in the well *h* having the tray *h'* upon which the washed glasses are drained as shown and a waste water pipe *j* is provided to relieve the well of accumulated water. The well is provided with the hinged dome or cover *k* which when closed down during the washing process prevents any splashing trouble. The water is fed to the jets by the down press rod *l* which operates the pivoted lever *m* and in turn opens the spring valve *n*. This lever is provided with the auxiliary spring *n'* for returning it to the normal position and to permit the spring valve the quicker to close. The water is fed by the pipe *p* having the regulator cock *q*. As before stated the jets *b* and *f* strike the glass both internally and externally and at such an angle as to cause the inverted glass to rapidly rotate on the pivoted hanging frame *d* with the result that the glass receives a thorough positive cleansing whereupon it is removed and then placed upon the drainer *h'* and at the same time the press rod *l* is released so allowing the valve to close and to shut off the feed water through pipe *p*.

What I claim as my invention and desire to secure by Letters Patent is:—

A turbine washer for drinking glasses comprising an upright pipe having perforations therein, a spinning frame supported on the pipe to hold a glass in inverted position, fixed pipes disposed at opposite points at a distance from the frame and having inwardly projecting angular terminals and also including an upwardly projecting member having an outlet terminal arranged to throw a spray on the bottom of the glass, the said fixed pipes being perforated to

throw sprays of water at an angle relatively to the outer surface of the glass, and means independent of the spinning frame and said upright pipe carrying the frame for manual operation to admit water to the several pipes.

In testimony whereof I have hereunto set

my hand in presence of two subscribing witnesses.

FREDERICK BOESSER.

Witnesses:

RICHARD SPARROW,  
N. W. BURKE.