R. J. MILLER.

BASIN PLUG.

APPLICATION FILED FEB. 27, 1917.

1,245,943.

Patented Nov. 6, 1917.

2 SHEETS—SHEET 1.

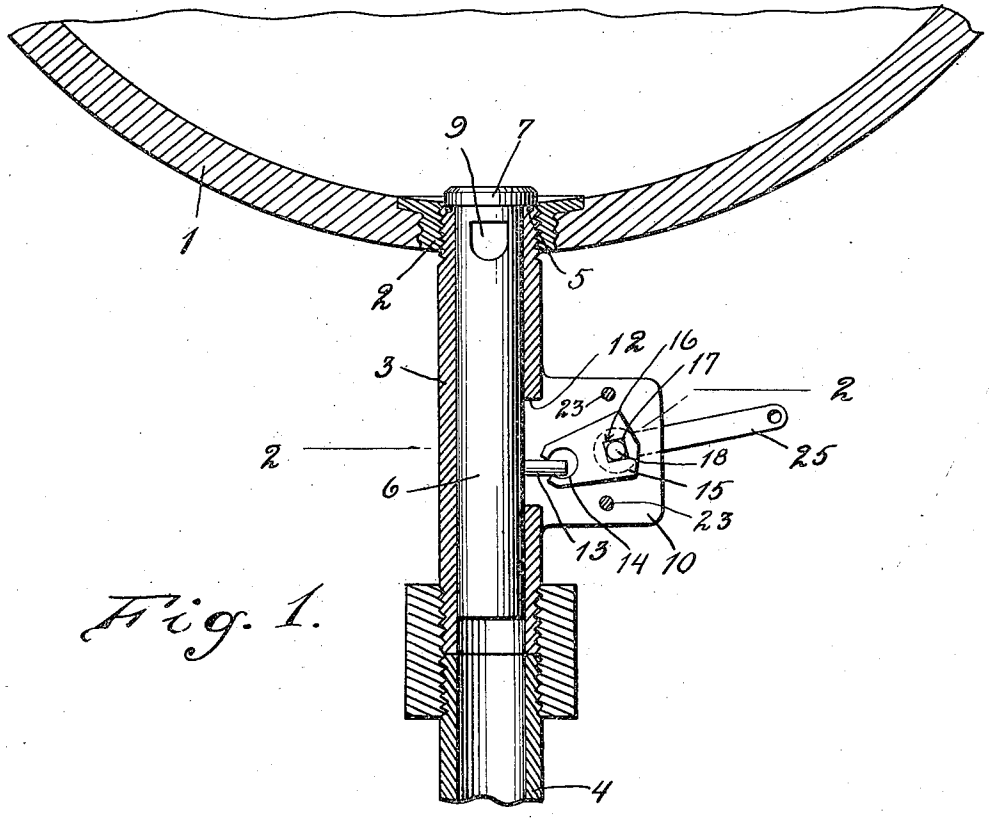


Fig. 1.

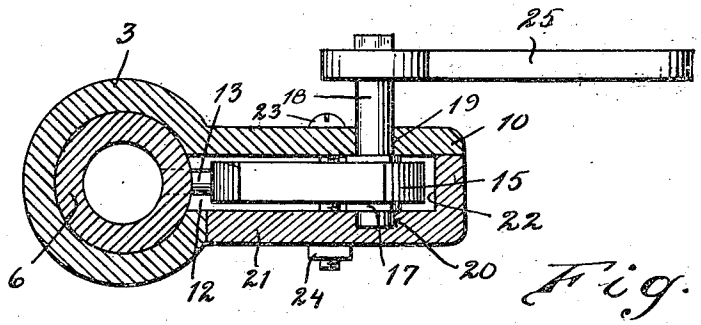


Fig. 2.

WITNESSES

J. M. Jester

INVENTOR

R. J. Miller

BY Victor J. Evans

ATTORNEY

R. J. MILLER.

BASIN PLUG.

APPLICATION FILED FEB. 27, 1917.

1,245,943.

Patented Nov. 6, 1917.

2 SHEETS—SHEET 2.

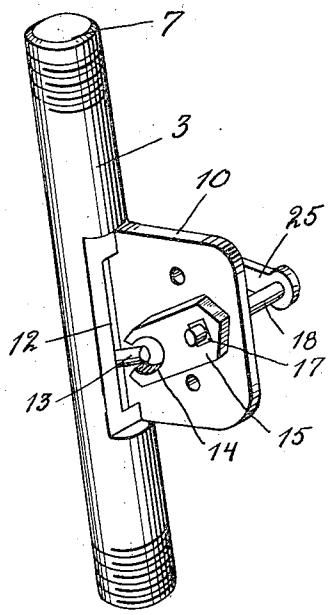


Fig. 4.

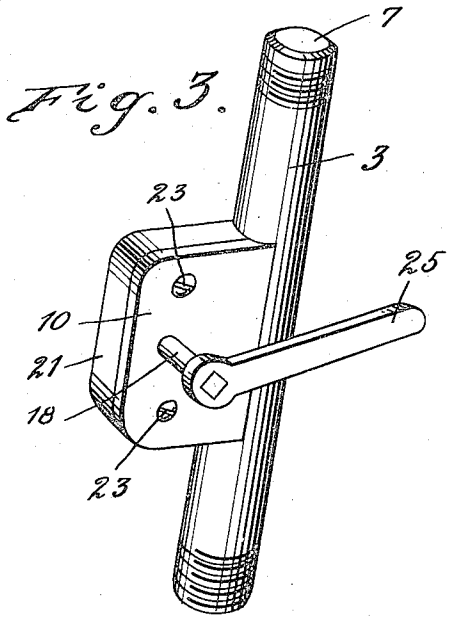


Fig. 3.

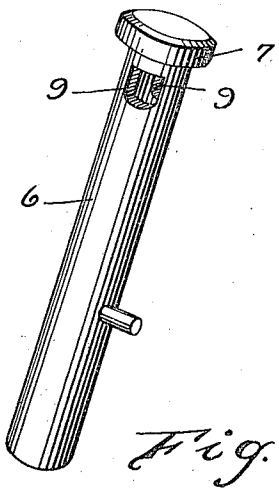


Fig. 5.

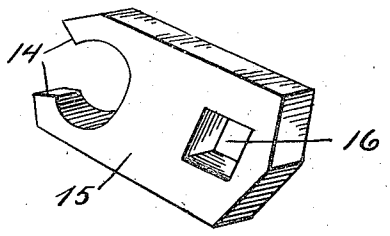


Fig. 6.

WITNESSES

J. M. Jester

INVENTOR

R. J. Miller

BY Victor J. Evans

ATTORNEY

# UNITED STATES PATENT OFFICE.

ROBERT JAMES MILLER, OF GLASSVILLE, NEW BRUNSWICK, CANADA.

## BASIN-PLUG.

1,245,943. Specification of Letters Patent. Patented Nov. 6, 1917.

Application filed February 27, 1917. Serial No. 151,363.

*To all whom it may concern:*

Be it known that I, ROBERT JAMES MILLER, a subject of the King of Great Britain, residing at Glassville, in the Province of New Brunswick and Dominion of Canada, have invented new and useful Improvements in Basin-Plugs, of which the following is a specification.

This invention relates to improvements in plugs for closing the outlets of basins, etc.

The object of the invention is to produce a device which may be readily attached to the basin and connected to the outlet pipe for the basin, the said device carrying a plug for closing the basin outlet and being provided with means operative exteriorly of the basin for actuating the said plug to open or close the same.

Another object of the invention is to produce an attachment of this character which shall be of a simple nature, readily attached to any ordinary construction of basins and to the outlets therefor and which can be operated to actuate the plug by a lever mechanism arranged exteriorly of the basin and disposed in a position convenient to the operator.

With the above and other objects in view the improvement resides in the construction, combination and arrangement of parts set forth in the following specification and falling within the scope of the appended claims.

In the drawings:

Figure 1 is a sectional view through a portion of a basin with the improvement attached thereto, parts of the said improvement being broken away and parts being shown in section,

Fig. 2 is a transverse sectional view approximately on the line 2—2 of Fig. 1,

Fig. 3 is a perspective view of the improvement,

Fig. 4 is a similar view but illustrating the cover plate for the flange removed,

Fig. 5 is a perspective view of the plug, and

Fig. 6 is a similar view of the plug actuating member.

In the drawing the numeral 1 designates a wash basin having the usual outlet 2, and arranged within the said outlet is the upper end of the tubular casing 3 of my improvement. The casing has its outer end connected, in any desired or preferred manner, to the outlet or waste pipe 4 for the basin. It is, of course, to be understood that the connection between the casing 3 and the basin is such as to prevent the passage of water through the joint thus formed, and the upper portion of the mouth of the casing 3 is preferably provided with a depressed portion within which is arranged a compressible gasket 5. Slidably arranged in the tubular casing 3 is a hollow plug 6, the same having its outer end formed with an enlargement or head 7 that normally rests upon the upper edge of the casing, and if desired, the underface of this head 7 may be provided with a continuous depression receiving a suitable gasket. The tubular member 6 is, of course, closed to the head 7, but is at a suitable distance below the said head provided with openings 9 that communicate with the base of the said plug. In addition the plug may be provided with peripheral depressions receiving gasket members so as to positively insure non-leakage between the plug and the casing.

The casing 3, approximately centrally thereof, is provided with an integrally formed outwardly extending member or flange 10. The flange is preferably of a rectangular formation, and the casing 3, at the inner face of the said flange is provided with an elongated slot 12 through which passes an offset element or finger 13 provided upon the plug. The element 13 is adapted to engage within the bifurcated end 14 of a member 15. This member, at its end opposite the bifurcation 14 is formed with a square opening 16 which receives a squared portion 17 provided upon a rod 18. This rod 18 passes through a suitable bearing 19 in the flange 10 and is likewise received in a depression 20 upon the inner face of the cover plate 21 for the said flange. The cover plate has its inner face depression, as at 22, to receive the member 15 to permit of the swinging of the said member whereby to elevate the plug to permit of the water flowing from the basin through the openings 9 in the plug below the head thereof. The plate 21 is preferably secured to the plate 10 through the medium of bolt members 23 which pass through transverse openings in the said plate and in the said flange, while nuts 24 engage with the said bolts, and in this manner it will be noted that the plate 21

may be readily removed and access may be obtained to the elements 13 or 15, should repairs be required in the same.

To one end of the rod 18 is connected a lever member 25, and it will be understood that links or similar elements may be connected with the said lever and be attached to a suitable operating device, such as a swinging or pivoted element whereby the plug may be operated at a convenient place with respect to the basin.

Having thus described the invention, what I claim is:

1. In combination with a wash basin, and an outlet pipe therefor, of a casing arranged between the said basin and the said outlet pipe and connected with both the basin and said outlet pipe, a hollow plug movable in the casing, a solid head for the plug, compressible means between the plug and casing, said plug below the head having openings communicating with the bore thereof, a flange upon the casing, a bifurcated member pivoted upon the flange, said casing having an elongated opening in a line with the flange, an offset element connected with the plug and received in the bifurcation of the referred to member, and means comprising mechanism for rocking the pivoted member to move the plug longitudinaly of the casing.

2. In combination with a wash basin having an outlet opening and a discharge pipe for the basin located below the opening, of a casing having one of its ends secured in the opening and its other end connected with the discharge pipe, a plug having a longitudinal bore arranged for slidable movement in the casing, a head for the plug closing the bore thereof, compressible means between the plug and casing, a flange approximately centrally formed upon one side of the casing, said casing having an elongated slot in a line with the flange, an element connected with the plug and arranged in the opening, a rod journaled in a bearing opening in the flange, a bifurcated member secured to the said rod and receiving the offset element of the plug, an operating lever for the rod, and a dished plate removably secured to the flange and inclosing the bifurcated member and closing the elongated slot in the casing.

In testimony whereof I affix my signature.

ROBERT JAMES MILLER.