

E. F. HINE.
WASHBASIN.
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1,047,807.

Patented Dec. 17, 1912.

Fig. 1.

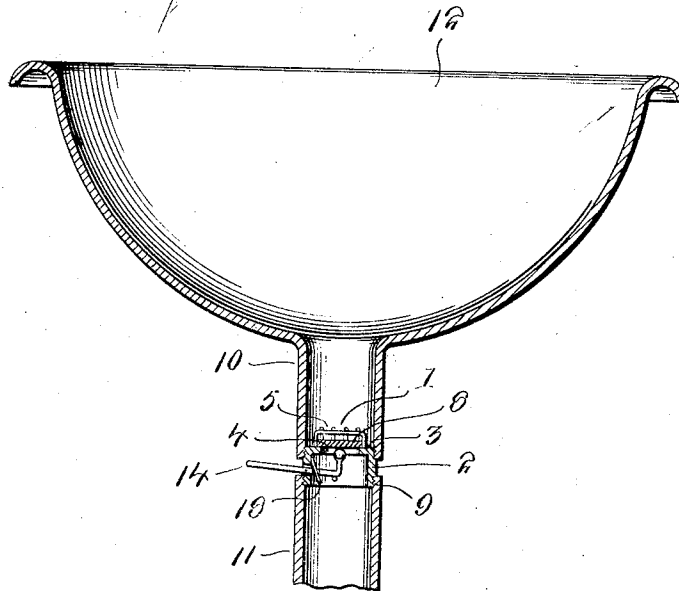
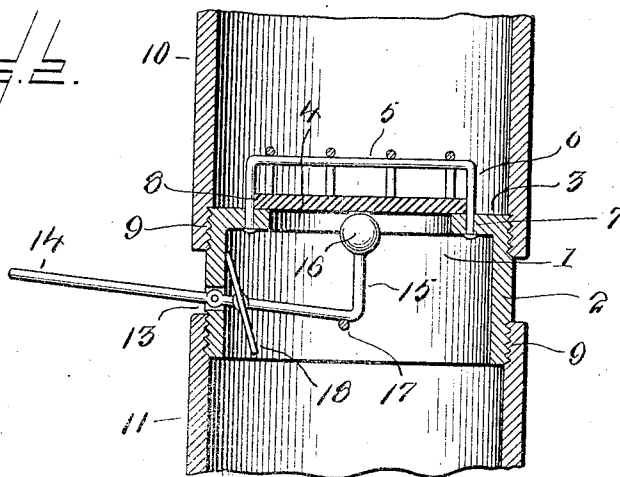


Fig. 2.



Witnesses
E. Q. Ruppert
Wm. North

Inventor
Ernest F. Hine
By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

ERNEST F. HINE, OF PORT KELLS, BRITISH COLUMBIA, CANADA.

WASHBASIN.

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To all whom it may concern:

Be it known that I, ERNEST F. HINE, a subject of the King of Great Britain, residing at Port Kells, in the Province of British Columbia and Dominion of Canada, have invented a new and useful Improved Washbasin, of which the following is a specification.

This invention relates to improvements in valves and seats therefor, and the invention is finally directed to that class of valves employed in connection with wash stands or the like, the object of the invention being to provide a device of this class which is extremely simple in construction, which can be easily and quickly connected with a pair of pipes, which can be manufactured at a small cost and which is thoroughly efficient in operation.

With the above and other objects in view which will appear as the description progresses, the invention resides in the novel construction and arrangement of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a central longitudinal sectional view of a basin having my improved valve secured to sections of the outlet pipe thereof. Fig. 2 is a detail sectional view of the valve, taken upon an enlarged scale.

In the accompanying drawings, the valve has been illustrated in connection with a wash basin, but as heretofore stated the valve is not restricted to this particular use as it will be apparent that the said valve may be employed with equal efficiency upon numerous other devices which are formed with pipe sections as an outlet.

In the drawings, the numeral 1 designates the valve proper. This valve comprises a cylindrical casing 2 having an open bottom and a partially closed top 3. The top 3 is formed adjacent its opening 4 with a cage 5, the latter being constructed of strips of suitable bendable material and are preferably arranged at right angles one to the other. The members comprising the cage are each of a substantially U-shaped formation and the arms 6 are adapted to project through suitable perforations 7 provided by the top 3 of the casing 2.

By reference to the figures of the drawing it will be noted that the arm 6 of the member 5 is spaced for a suitable distance beyond the perimeter or wall formed by the opening 4, and the said extending portion

of the top 3, is adapted to serve as a seat proper for a disk valve 8. The valve 8 is adapted to fit snugly within the cage 5 and to engage the arms 6 of the sections comprising the cage.

The casing 2 has its exterior threaded as at 9, and the said threads are adapted to engage interior threads formed upon pipe sections 10 and 11. These sections 10 and 11 are adapted to serve as the outlet for the basin 12. The casing 2 is formed with a suitable opening 13 and pivotally connected with the walls formed by the said opening is the operating member 14 for the valve 8. This member has its longitudinally extending arm projecting a suitable distance beyond the casing 2 and the said member has an integrally formed vertically projecting member 15, the latter being provided with a rounded head 16 which contacts the under face of the valve 8 and preferably at the center thereof.

In order to limit the downward movement of the operating member 14, the casing 2 is preferably provided with a transversely arranged rod or bar 17, the same being positioned directly below the horizontal arm of the operating member, so that the head 16 of the member 15 does not at all times contact with the valve 8.

Securely connected to the operating member 14 is a guard plate 18. This guard plate is arranged at an angle to the vertical walls of the casing 2 and the said plate is preferably constructed of some suitable resilient material, so that its upper face or edge wipes the wall of the casing 2 directly above the opening 13 thereof and thus prevents the water splashing through the said opening when the valve 8 is operated. The inclined guard or apron 18 serves as a means for limiting the movement of the operating member and consequently limits the movement of the valve 8 within the cage 5.

From the above description, taken in connection with the accompanying drawings, the simplicity of the structure, method of application and mode of operation will be perfectly apparent to those skilled in the art to which the invention appertains, it being noted that by providing the casing 2 with threads upon its outer face, the same may be fitted to interior threads formed upon any pair of pipe sections, the size of the sections, of course, agreeing with the perimeter of the casing, and while I have

illustrated and described the preferred embodiment of the improvement as it now appears to me, minor details of construction within the scope of the appended claim may be made, if desired.

Having thus fully described the invention, what I claim as new, is:—

The combination with a pipe including a plurality of sections, of a valve interposed between the sections, said valve including a casing, an inturned annular flange formed at one end of the casing, a valve cage secured to said flange and spaced from the periphery of the opening therein and surrounding a valve seat on the flange, a disk valve in said cage adapted to cooperate with the seat on said flange, the side wall of said casing being provided with an opening, an operating lever pivoted to the walls of said opening and projecting within said casing,

said lever terminating in a right angular member, a rounded head integral with said member adapted to engage said disk valve in the movement of the lever whereby to disengage the valve from its seat, a rod extending transversely of the casing and adapted to limit the movement of the operating lever in one direction, and a guard plate carried by said lever and composed of resilient material and adapted to wipe the side wall of the valve casing immediately adjacent the opening therein so as to prevent leakage through said opening.

In testimony whereof I affix my signature in presence of two witnesses.

ERNEST F. HINE.

Witnesses:

R. K. CHAPMAN,
A. GODWIN.