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PATENTED DEC. 4, 1906.

B. N. MILES.
WASHBASIN.

APPLICATION FILED NOV. 18, 1905.

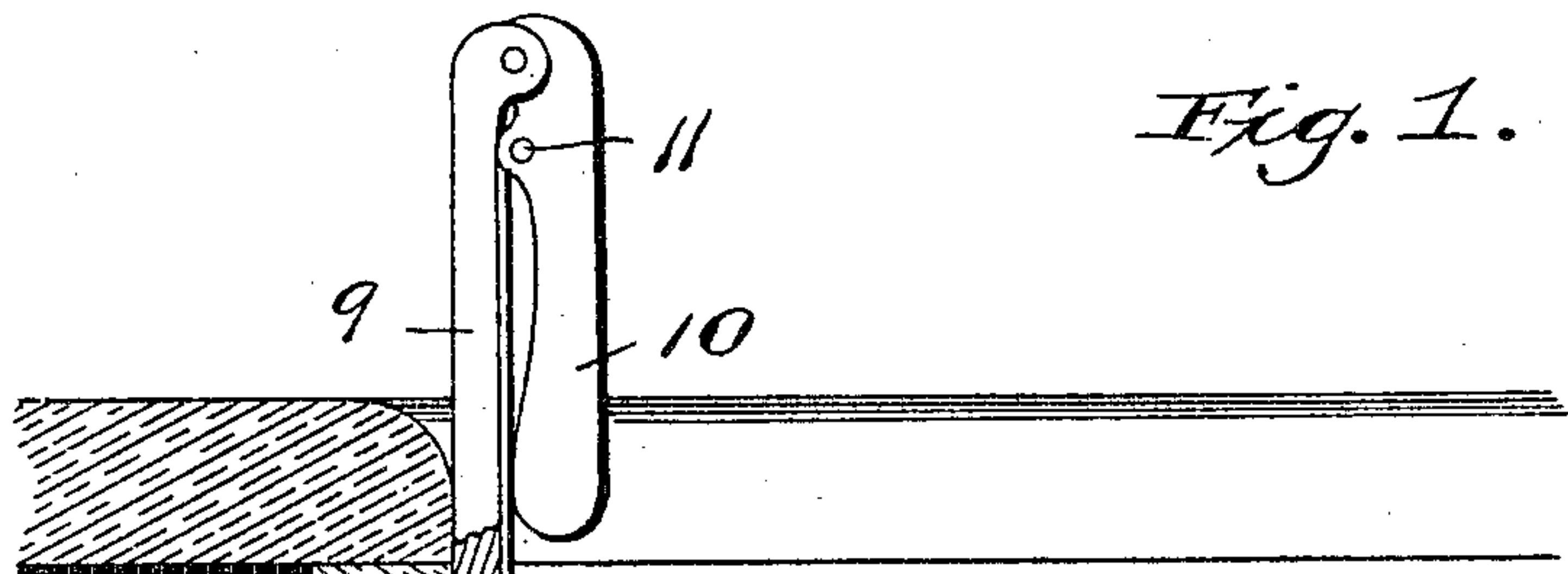


Fig. 1.

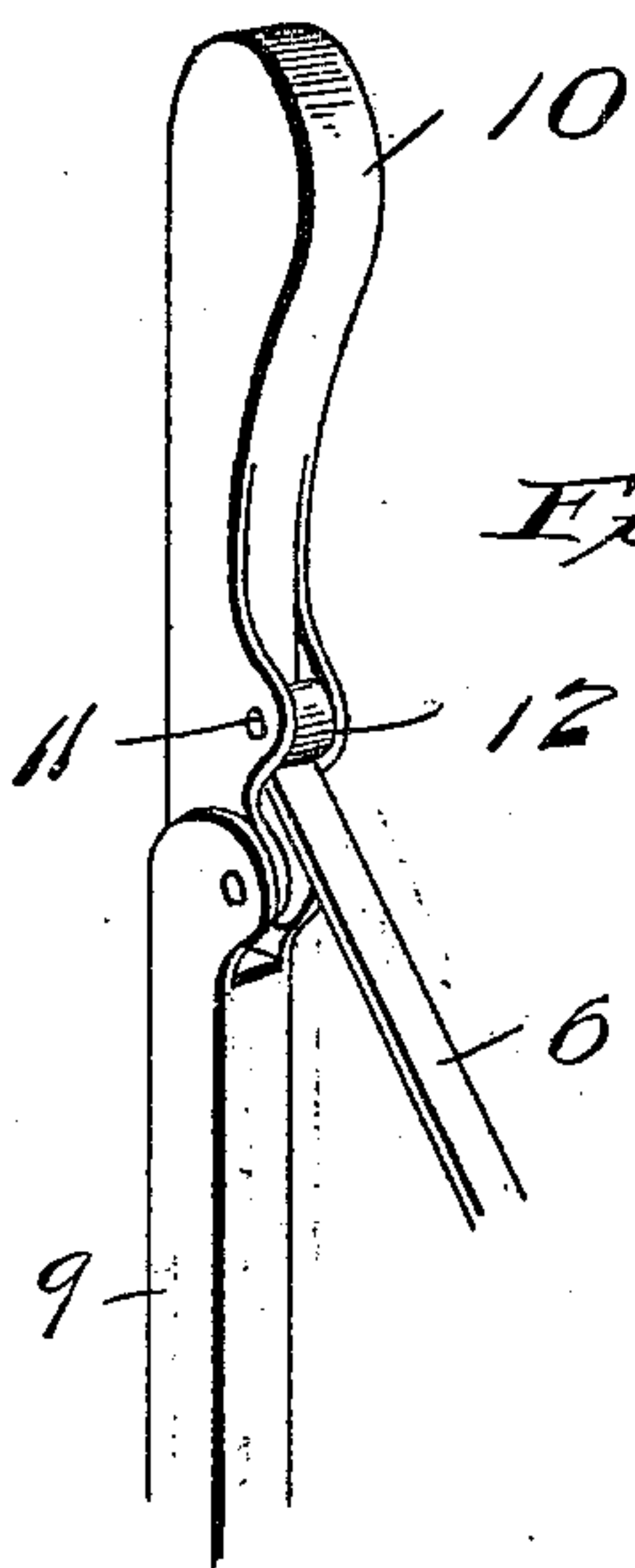


Fig. 2.

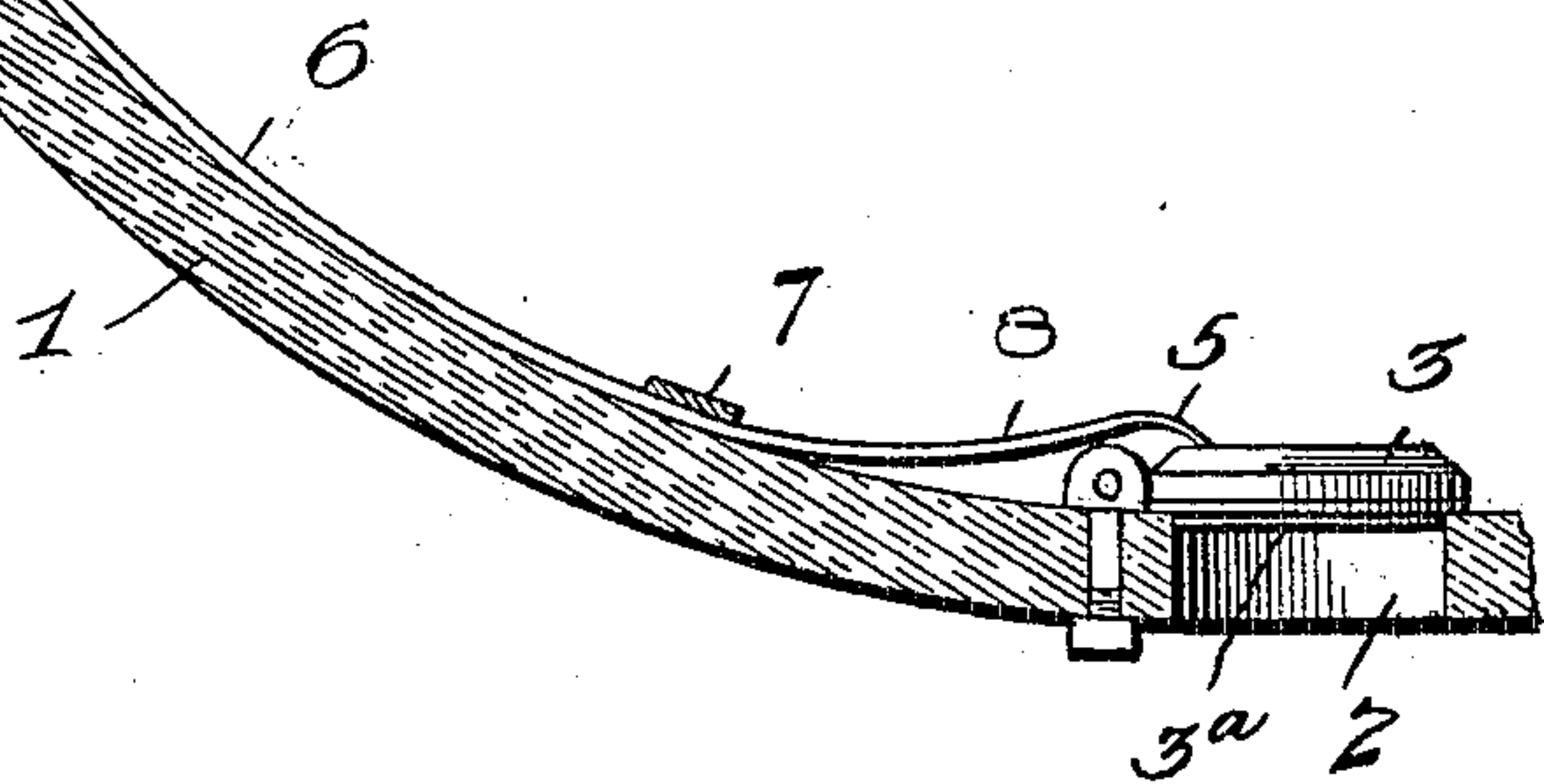
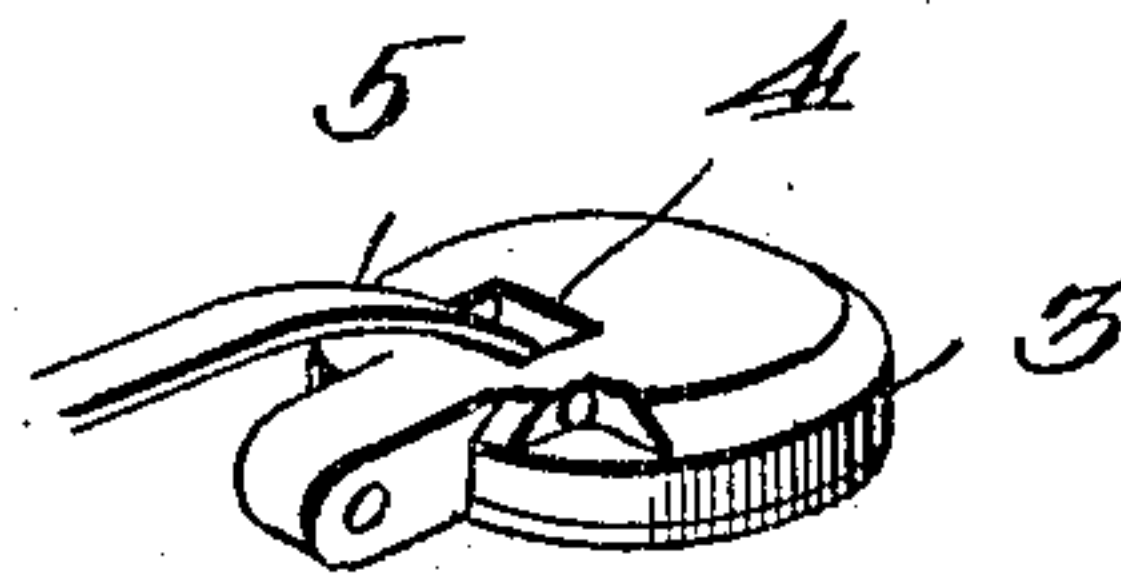


Fig. 3.



Witnesses

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WASHBASIN.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BERNARD N. MILES, a citizen of the United States, residing at North Ridgeville, in the county of Lorain and State of Ohio, have invented new and useful Improvements in Washbasins, of which the following is a specification.

This invention relates to a plug or valve organization for opening and closing the discharge-orifice of a washbasin; and the primary object of the same is to provide an improved simplified form of valve and operating means controllable from the rim of the basin. The plug or valve is firmly held to its seat by spring-pressure exerted through the medium of a flat spring-metal strap held closely against the inner surface of the basin and longitudinally movable or slidable and operative by a particular form of lever disposed adjacent to a portion of the rim of the basin.

The invention also consists in details of arrangement and construction of the several parts more fully hereinafter set forth.

In the drawings, Figure 1 is a transverse vertical section of a portion of a basin, showing the improved plug or valve and operative mechanism applied thereto and partially broken away. Fig. 2 is a detail perspective view particularly illustrating the operating-lever and its support. Fig. 3 is a detail perspective view of the plug or valve and a part of the operating means therefor.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a wash basin or bowl of any suitable form, but illustrated as being of the stationary type and provided with a central drain-orifice 2. A plug or valve 3, having a rubber gasket 3^a, is pivotally secured or hinged to the lower portion of the basin in such position as to close downwardly over the upper portion of the orifice 2. In the upper portion of the valve or plug 3, adjacent to the point of hinge attachment thereof, a recess or seat 4 is formed to receive the downwardly-curved free extremity 5 of a flat spring-metal strap 6, which passes through correspondingly-shaped clips 7, secured to the basin and is held close to the latter. The strap 6 is longitudinally movable through the clips 7, and after it leaves the lowermost clip it is bent or deflected upwardly, as at 8. The upwardly-deflected portion 8 of the strap is longitudinally con-

caved and gradually merges into the downwardly-deflected extremity 5, which is convex, and through the medium of this compound contour the said extremity is caused to be tightly held within the valve or plug 3 and exert a spring tension on the latter with such stress as to hold the plug or valve firmly to its seat and obstruct leakage. The convex curvature of the extremity 5 of the strap 6 also avoids obstruction to movement of the latter by clearing the hinge connection for the plug or valve, and it will be understood that the lower terminal of the extremity 5 will be suitably secured in the plug or valve.

Secured to the upper portion of the inner side of the basin close to the rim of the latter is a post 9, which rises above the basin-rim and has a lever 10 pivoted to the upper end thereof, the said lever on the side normally adjacent to the post 9 having a cross pin or bar 11, to which the upper end of the strap 6 is movably attached, as at 12.

When it is desired to release water from the basin, the lever 10 is pulled upwardly to the position shown by Fig. 2 from that illustrated by Fig. 1, and by such movement of the lever the upper extremity of the strap is thrown inwardly owing to its resiliency and again drawn outwardly, at the same time shifting the strap through the clips 7 and pulling the plug or valve open. The lower extremity of the strap in this opening operation is compressed closer to the adjacent portion of the basin, and a stronger spring action is set up at such point in view of the upward deflection 8. So long, however, as the lever 10 is raised the valve or plug 3 cannot return to a normally closed position; but as soon as the lever 10 is thrown downwardly past the center of its fulcrum the strap will have a tendency to release itself from restriction at the lower extremity, and thereby set up a partial automatic operation, which will facilitate the closing of the plug or valve.

Another advantage of holding the strap in close relation to the bowl is that the inward projection thereof being reduced to a minimum is less liable to be engaged or struck by the user of the bowl or basin. Furthermore, the flat structure of the strap and the corresponding contour of the clips 7 operate to maintain the strap against displacement and always insure a positive operation thereof.

The improved attachment, including the

plug or valve, is also capable of application to basins now in use at a minimum expense, and in view of the simplicity of the several parts they can be cheaply manufactured and
5 applied either to new basins before the latter are set up in operative position or to those already in use, as just set forth.

Having thus fully described the invention, what is claimed as new is—

10 The combination with a basin having a drain-orifice, of a valve hinged adjacent to and movable over said orifice, said valve being raised above the orifice when opened and provided with a recess in the top thereof, a
15 flat resilient metallic strap closely and slid-

ably held against the inner side of the basin and having its lower extremity upwardly deflected and downwardly projected, the lower upwardly-deflected and downwardly-projected end of the strap loosely engaging the
20 said recess of the valve, and means connected to the upper extremity of the strap for operating the same.

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

BERNARD N. MILES.

Witnesses:

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