

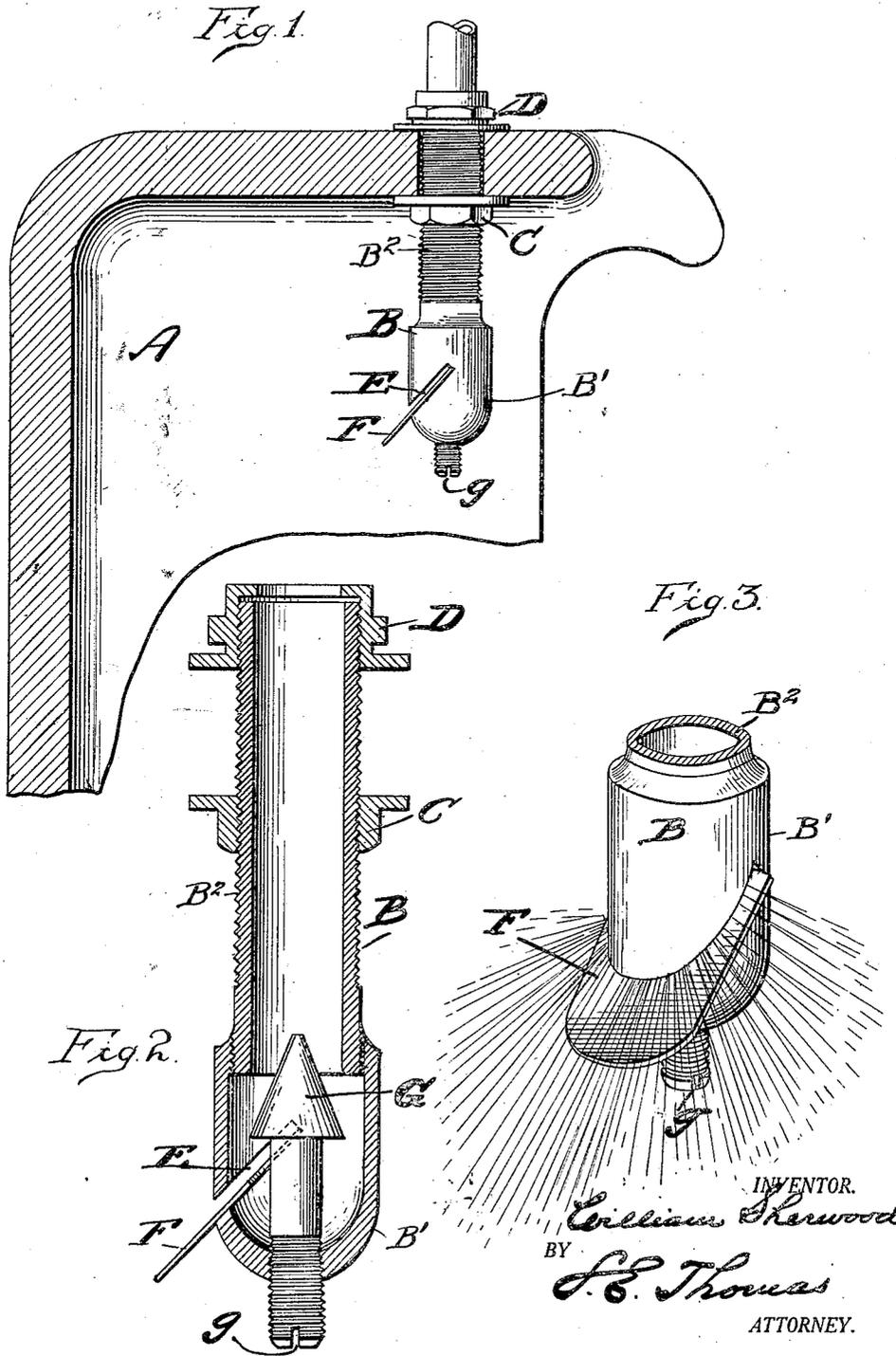
April 27, 1926.

1,582,488

W. SHERWOOD

FLUSHING VALVE NOZZLE FOR URINALS

Filed May 28, 1925



INVENTOR.
William Sherwood
BY
J. E. Thomas
ATTORNEY.

UNITED STATES PATENT OFFICE.

WILLIAM SHERWOOD, OF DETROIT, MICHIGAN, ASSIGNOR TO SHERWOOD BRASS WORKS, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

FLUSHING VALVE NOZZLE FOR URINALS.

Application filed May 28, 1925. Serial No. 33,392.

To all whom it may concern:

Be it known that I, WILLIAM SHERWOOD, citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Flushing Valve Nozzles for Urinals, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a flushing valve nozzle for urinals, shown in the accompanying drawings and more particularly described in the following specification and claims.

Spray nozzles have been used to flush or wash the walls of urinals,—but so far as known no means unitary therewith has been provided to regulate the discharge of a thin flat film or stream of water under suitable pressure to insure a thorough washing of the wall surface of the urinal and that the water may not be deflected outwardly upon striking the latter.

The primary object, therefore, of the present invention is to provide a valve nozzle adapted to be supported in the wall of a urinal connected by suitable piping with a source of water supply under pressure, whereby a relatively thin broad film or stream of water is delivered against the wall of the urinal—controlled by a valve in the body of the device—the construction being such that the water upon leaving the valve body passes through a relatively wide, narrow slit in its wall over an inclined plate which is adapted to project the water in a thin flat stream against the surface of the wall—the flow and pressure of water being regulated by the valve that the wall may be washed thoroughly in a downward direction of the usual pipe connection leading to a sewer.

With the foregoing and other objects in view which will appear as the description proceeds the invention further resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed it being understood that changes may be made in the precise embodi-

ment of the invention herein disclosed without departing from the spirit of the same. 55

In the drawings accompanying this specification:

Figure 1 is a fragmentary cross-sectional view through the wall of a urinal showing the device in elevation installed therein. 60

Figure 2 is a vertical cross-sectional view showing the valve for regulating the flow through the device.

Figure 3 is a fragmentary perspective view of the lower end of the device showing the blade for directing the water in a thin flat stream against the wall of the urinal. 65

Referring now to the letters of reference placed upon the drawings:

A denotes a urinal. B indicates a nozzle-valve fitting adapted to extend through the wall of the urinal to which it is secured by a nut C screwed on the threaded portion of the nozzle against the underside of the urinal wall and a screw-tapped collar D—adapted for pipe connection—bearing upon the wall from above. 70 75

The lower nozzle end B' of the device is larger in diameter than its tube portion B² and is provided with a relatively narrow inclined slot E, extending approximately to the center of the nozzle. Directly beneath the slot and parallel with the inclined opening is a flat blade F, projecting outwardly to direct the water in a thin flat stream against the wall of the urinal that the latter may be washed in a downward direction toward a sewer connection—not shown. 80 85

Extending upwardly through the lower end of the nozzle is the screw-threaded stem of a tapering valve G, provided with a slot or kerf g to receive the blade of a screw driver, whereby the valve may be adjusted to regulate the flow from the tube portion through the nozzle of the device to govern the flow of water against the wall of the urinal. 90 95

The end of the blade F within the nozzle has an arc-shaped recess to accommodate the stem of the valve. 100

Having thus described my invention what I claim is:

A flushing nozzle comprising a tubular portion having a closed head of relatively larger diameter at one end; said head provided with an inclined slot through its side 105

wall for the discharge of water; a flat blade secured to the wall of the enlarged head extending from within the body portion through the slot and outwardly beyond the outer wall of the head, its inwardly projecting portion being recessed to accommodate a valve stem, and a valve housed within the enlarged head provided with a screw threaded stem extending through a tapped hole in the closed end of the head for longitudinally adjusting said valve toward the contracted portion of the nozzle to control the discharge of water through the slot.

In testimony whereof, I sign this specification.

WILLIAM SHERWOOD.