

(No Model.)

A. W. AYLING.
CONNECTION FOR BROKEN WATER CLOSETS.

No. 526,285.

Patented Sept. 18, 1894.

Fig. 1.

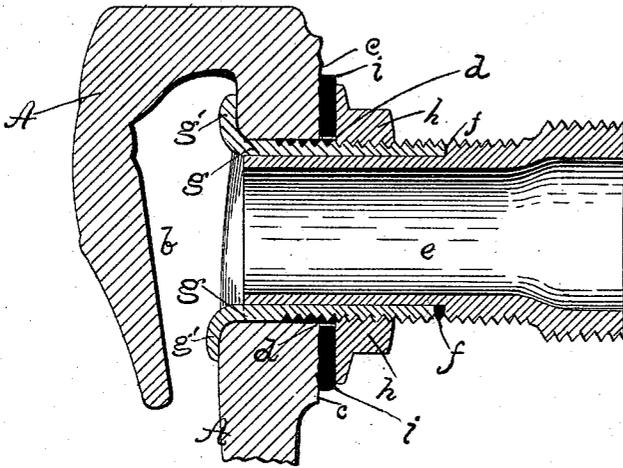
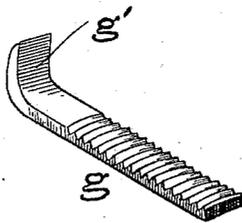


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

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CONNECTION FOR BROKEN WATER-CLOSETS.

SPECIFICATION forming part of Letters Patent No. 526,285, dated September 18, 1894.

Application filed May 8, 1894. Serial No. 509,903. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR W. AYLING, a citizen of the United States, residing at Toledo, Lucas county, Ohio, have invented certain new and useful Improvements in Connections for Broken Water-Closets, of which the following is a specification.

Earthenware water-closet bowls are usually provided with rearwardly projecting inlet nozzles, which are connected with the lower end of the flushing pipe. These earthenware nozzles are frequently broken off after the bowl is secured in place, and connected to its pipes, by reason of the settling of walls or floors, or the undue contraction or expansion of pipes, or from other causes. In such case the bowl has heretofore been deemed spoiled, and it has been considered necessary to throw away the entire broken bowl and to substitute a new one, in order to provide means for connecting the bowl and the flushing-pipe, thus entailing considerable expense and annoyance.

My invention relates to and its object is to overcome the difficulties here pointed out, and provide a detachable nozzle or "spud" which may be used as an adjustable connection between the lower end of the flushing-pipe and the opening into the flushing-rim of the bowl, left by the breaking off of the nozzle. I attain these objects by means of the device hereinafter described, and shown and illustrated in the accompanying drawings, made part hereof, in which—

Figure 1, is a vertical, central, longitudinal, sectional view of my device, and Fig. 2, is a perspective view of one of the hooks hereinafter referred to, detached.

In the drawings A is a portion of the water-closet bowl; *b*, the hollow of the flushing-rim; *c*, the surface from which the inlet-nozzle has been broken, and *d* the opening into the flushing-rim.

e is a section of pipe, exteriorly screw-threaded at its outer extremity, to take the lower end of the flushing-pipe, the inner end, also exteriorly screw-threaded, projecting into the opening *d*, leading into the flushing-rim. Two opposite sides of the inner end of section *e* are slotted or grooved longitudinally, as at *f*, and these slots or grooves receive the pieces *g*. Pieces *g* are flat on their inner sides and rounded and threaded on their exterior surfaces to conform to and coincide with the circumference and the screw-thread

of pipe *e*. Pieces *g* are provided with hooks *g'* which project radially from pipe *e* and engage the inner surface of the outer wall of the flushing-rim. Pieces *g* fit snugly in their grooves but may be moved longitudinally as the case may require. In practice, however, one of the pieces *g* may be brazed or soldered permanently in place, as it will be found unnecessary to adjust both hooks, in attaching my device. Upon the screw-threaded pipe *e* is a nut, *h*, which may be screwed back far enough to disengage the shanks *g* of hooks *g'*. An india-rubber washer *i*, on pipe *e*, arranged to be compressed between surface *c* and the nut *h*, completes my coupling.

The operation of my device is obvious. The hooks *g'* being separated from pipe *e*, are caused to engage the margin of the flushing inlet, in the flushing rim. The end of pipe *e* is slipped into opening *d*, the shanks *g* of hooks *g'* at the same time slipping into their grooves or slots *f*. The nut *h* is now screwed forward, engaging the threaded shanks of hooks *g'* which now serve as a flange for the inner end of pipe *e*, preventing the withdrawal of the pipe. The nut is screwed still farther forward, compressing the rubber washer between the nut and surface *c*, thus making a tight joint. The outer end of pipe *e* is connected with the lower end of the flushing pipe by means of the usual "union," and the operation is complete.

Besides being useful for the purpose above described, my device will be found convenient for connecting pipes with wooden casks, and for various other uses which will readily suggest themselves to those skilled in the art.

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

A pipe connection, comprising in its construction an exteriorly threaded and longitudinally grooved pipe-section; hooks having their shank-portions disposed in the longitudinal grooves of said pipe-section, their outer surfaces rounded and threaded coincidentally with the exterior of said pipe-section and their hook portions radial to said pipe-section; a nut on said threaded pipe section, and an india-rubber washer on said pipe section, all substantially as shown and described, for the purpose specified.

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Witnesses:

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