

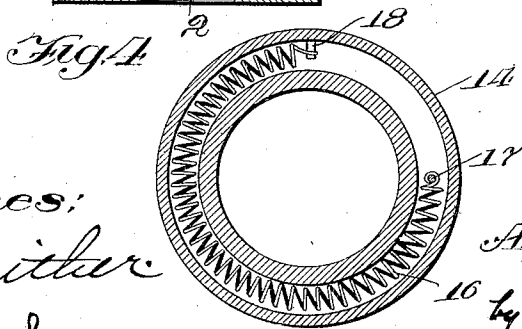
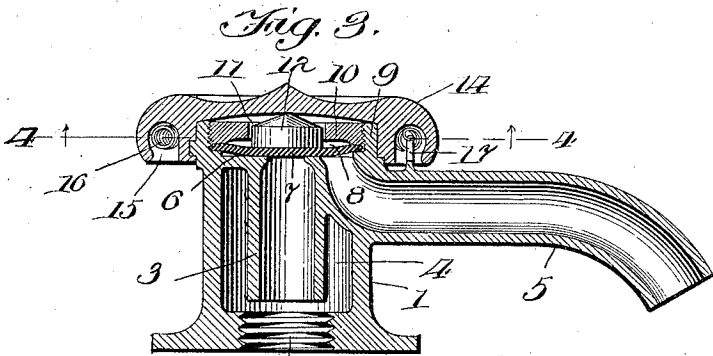
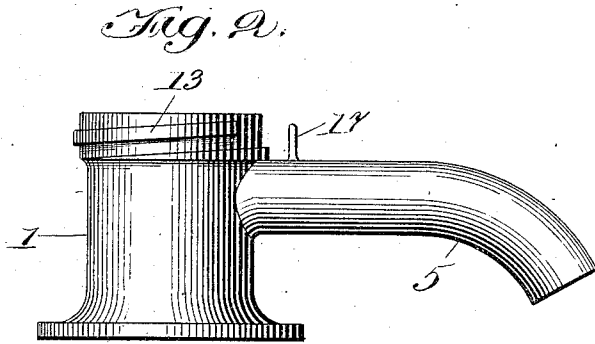
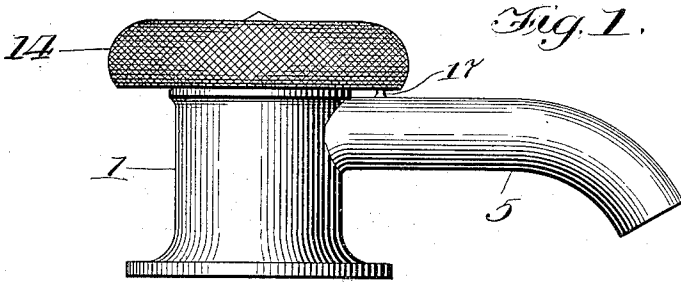
No. 745,027

PATENTED NOV. 24, 1903.

A. R. STONE.
FAUCET.

APPLICATION FILED AUG. 18, 1902.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

ALLISON REED STONE, OF CHICAGO, ILLINOIS.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 745,027, dated November 24, 1903.

Application filed August 18, 1902. Serial No. 120,099. (No model.)

To all whom it may concern:

Be it known that I, ALLISON REED STONE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Faucets, (Case 2,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to faucets or cocks for use upon washbasins, bath-tubs, and the like.

The object of my invention is to provide a simple, practical, easily-operated, durable, inexpensive, and otherwise advantageous faucet or cock.

In the accompanying drawings, Figure 1 is a side elevation of a faucet embodying my invention. Fig. 2 is a similar view with the top or cover removed. Fig. 3 is a vertical section, and Fig. 4 is a horizontal sectional view taken on line 4 4 of Fig. 3 looking up.

The faucet shown in the drawings for carrying out my invention comprises a base or body portion 1, having a threaded socket 2 for connection with the pipe to which the faucet is to be applied. The body 1 contains an integrally-formed inlet-tube 3, which provides a passage for the liquid, the body 1 being appreciably larger than the tube 3, so as to provide an air-chamber 4 between the two, the inlet-tube 3 being open at its lower end to this chamber. The body 1 is also provided with the usual spout or nozzle 5. The inlet-tube 3 and spout 5 both terminate in a seat or floor 6, formed in the upper part of the body 1. On this seat 6 is arranged a packing-disk 7, conveniently made of rubber, leather, or the like, the packing-disk thus being at the bottom of a threaded socket 8, formed by an annular wall or lip 9 at the top of the body 1. Within the socket 8 is a threaded washer 10, which is adapted to screw into and out of the socket 8. The lower surface of this washer is slightly concave, so that when screwed into the socket 8 its outer edge rests upon the edge or margin of the packing-disk 7. The washer 10 has a central aperture, in which is loosely arranged a plug or plunger 12, which rests upon the central portion of the pack-

ing-disk 7 and has a pointed upper end which extends above the top of the washer 10.

The annular wall 9 is provided with a large or coarse thread 13, Fig. 2, and a cover 14, interiorly threaded to correspond, is fitted over said wall 9. The cover 14 is so constructed that when screwed down it will press the plunger 12 downwardly against the packing 7, so as to press the latter against the seat 6, and when unscrewed a small extent, preferably a quarter-turn, the plunger 12 and packing-disk 7 will be released, so as to be free to rise.

The cover 14 is desirably made with an annular chamber 15, and in this is arranged a coil-spring 16, which tends to automatically restore the cover to a screwed-down condition, the spring being to such end connected at its ends to pins 17 and 18, the former on the spout 5 and the latter on the cover. The pins 17 and 18 are desirably made so that the latter will strike the former when the cover has been unscrewed a quarter-turn.

The operation of the device is as follows: The spring 16 by holding the cover 14 in a screwed-down condition causes the packing 7 to maintain the upper end of the tube in a closed condition, thereby holding the faucet closed. When it is desired to open the faucet, the cover 14 is turned a quarter-turn, thereby allowing the packing 7 and plunger 12 to be elevated slightly by the liquid in the tube 3, whereupon such liquid flows continuously into and out through the spout 5. When it is desired to shut off the flow, the cover 14 is released, whereupon the spring 16 restores it to its normal screwed-down position, closing the tube 3. The air-chamber 4 prevents any water-hammer from taking place. The abrupt end of the thread 13, Fig. 2, serves as a stop to prevent the cover 14 from being screwed down too hard, the thread on the interior of the cover being abruptly terminated in a similar manner. The faucet can be used without the self-closing spring, if desired. Other changes and alterations can also be made without departing from the spirit of my invention.

It will be seen that the coarse thread for the cover reduces wear to a minimum; also, that wear on the packing can be readily taken

up by placing another thin piece of packing on the original one. This can be done without shutting off the liquid from the faucet. It will also be seen that the device is simple, cheap, and practical and occupies but very little space and has no projecting parts.

What I claim as my invention is—

1. A faucet comprising a body portion having an inlet and an outlet, a layer of packing located against the end of the inlet, a threaded socket in which the packing is arranged, a threaded washer fitting in said socket and having its marginal portions resting upon the marginal portions of the packing, said washer having a central aperture, a plunger arranged to work in said aperture and resting upon the packing, and a cover having a threaded connection with the body portion and adapted when screwed down to strike against the plunger and thereby cause the packing to close the inlet, substantially as described.

2. A faucet comprising a body portion having an inlet and an outlet, a layer of packing adapted to open and close the inlet, a washer engaging the marginal portions of the packing and having a central aperture, a plunger adapted to work in said aperture, and a cover having threaded engagement with the body and adapted to actuate the plunger, substantially as described.

3. A faucet comprising a body having an inlet and an outlet, packing adapted to open and close the inlet, a removable member engaging the marginal portions of the packing and having a central aperture, a plunger arranged to work in said aperture, and a cover having threaded engagement with the body and adapted to actuate the plunger, substantially as described.

4. A faucet comprising a body having an inlet and an outlet, packing adapted to open

and close the inlet, a removable member engaging the marginal portions of the packing and having a central aperture, a plunger arranged to work in said aperture, a cover having threaded engagement with the body and adapted to actuate the plunger, and a spring adapted to return the cover to normal position when partly unscrewed, substantially as described.

5. A faucet comprising a body having an inlet 3 terminating in a seat 6 and also having an outlet 5 also terminating in said seat, a layer of packing 7 placed upon said seat 6, the body 1 having an interiorly-threaded annular wall 9 extending up above the seat 6 so as to form an interiorly-threaded socket 8 in which the packing 7 is located, a centrally-apertured threaded washer 10 fitted in said threaded socket and having its marginal portions in engagement with the marginal portions of the packing, a plunger 12 arranged to work in the central aperture of the washer 10, a cover 14 having threaded engagement with the annular wall 9 and adapted to actuate the plunger 12, said cover having an annular recess 15, a spring 16 confined in the recess 15, and pins 17 and 18 engaging the ends of said spring, substantially as described.

6. In a faucet, the combination with a threaded rotatable head or cover, of a threaded body portion on which the cover fits, the threads on the head and body portion being abruptly terminated to form a stop, and means adapted for actuation by said head, for closing the faucet, substantially as described.

In witness whereof I hereunto subscribe my name this 13th day of August, A. D. 1902.

ALLISON REED STONE.

Witnesses:

A. MILLER BELFIELD,
WM. GAUCK.