

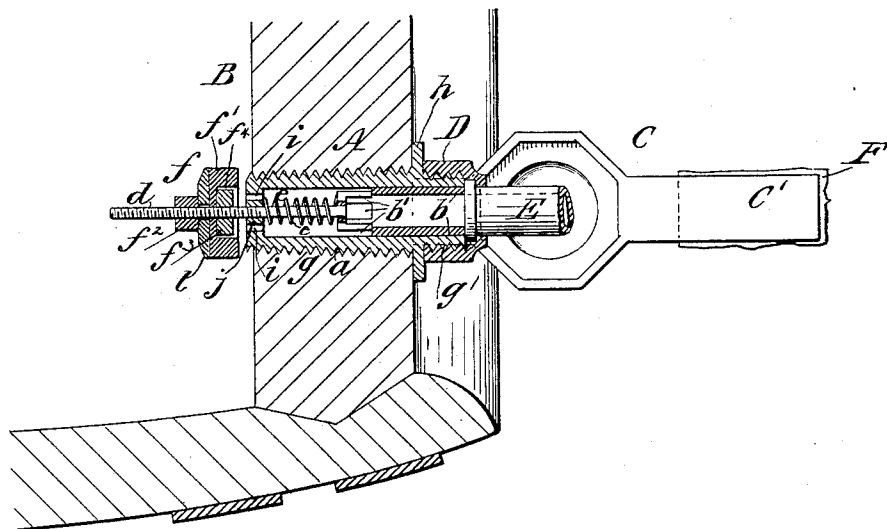
(No Model.)

A. J. GEYER, Jr.

AUTOMATIC TAP.

No. 325,072.

Patented Aug. 25, 1885.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ADAM J. GEYER, JR., OF RAHWAY, NEW JERSEY.

AUTOMATIC TAP.

SPECIFICATION forming part of Letters Patent No. 325,072, dated August 25, 1885.

Application filed September 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, ADAM J. GEYER, JR., of Rahway, in the county of Union and State of New Jersey, have invented a new and Improved Automatic Tap for Barrels, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawing, forming a part of this specification, in which a sectional elevation of my improvement with a protecting cap attached is shown applied to a barrel.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

A represents the tap, which is screwed into the barrel-head B, and C represents the protecting cap or cover, which is hinged to the head B in such position that the cap is adapted to be closed over the tap A when the coupling-nut D and pipe E are removed from the tap, thus protecting the tap from injury and from becoming filled with dirt.

The tap A is composed of the main shell *a*, inner shell *b*, spindle *d*, spring *e*, and stopper *f*, placed upon the end of the spindle *d*, inside of the barrel, for closing the openings *i* made in the diaphragm *j*, that closes the inner end of the shell *a*. The spindle *d* passes freely through a central opening made in the diaphragm *j*. At its outer end the shell *a* is screw-threaded, as shown at *g'*, to receive the above-mentioned coupling nut D, and it is flanged, as shown at *h*, and beyond this flange it is externally screw-threaded, as shown at *g*, adapting the shell *a* to be screwed into the barrel-head B. The inner shell *b*, slides freely within the shell *a*, and the spring *e* is placed upon the spindle *d*, within the shell *a*, and acts between the diaphragm *j* and the inner end of the inner shell *b*, so that when the coupling-nut D and pipe E are removed the spring forces the shell *b* and spindle *d* outward and brings the stopper *f* into close contact with the inner end of the shell *a*, thus automatically closing the tap by simply uncoupling the pipe E.

The stopper *f* may be of any suitable construction; but I prefer to form it of the block *f'*, of soft rubber, held upon the screw-threaded portion of the spindle *d* by the nuts *f²* *f³*, so that the stopper may be adjusted upon the spindle *d*. The block of rubber *f'* is backed by the washer *l*, and it is recessed at the front,

as shown at *f⁴*, to receive the nut *f³*, so that the nut will not interfere with the closing of the tap.

The inner end of the inner shell *b*, is slotted, as shown at *b'*, to permit the liquid in the barrel to pass out through the tap when it is open, and the shell *b* is made of such length relative to the length of the shell *a* and the distance of movement necessary to close the stopper *f* against the inner end of the shell *a* that when the stopper is so closed the outer end of the shell *b* will protrude a short distance from the outer end of the shell *a*, so that when the coupling-nut D and pipe E are again applied to the tap the end of the pipe E, being drawn down by the coupling-nut D, will force the shell *b*, spindle *d*, and stopper *f* inward, and thus automatically open the tap.

The cap or cover C is formed or provided with an arm, *C'*, that comes flat against the barrel-head B when the cap is closed over the tap A, so that the revenue-stamp F may be pasted to the barrel-head over the arm *C'*, so that the tap cannot be opened without mutilating and destroying the stamp. The cap C may be locked in closed position by any suitable means.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

1. An improved automatic tap consisting of the externally-screw-threaded outer shell, *a*, provided with the flange *h* at its outer end, and having a series of apertures, *i*, at its inner end, the sliding inner shell, *b*, having the slotted end *b'*, the spindle *d*, secured to the slotted end of the inner shell and projecting through the outer shell, the spring *e* on the stem *d*, with its ends resting against the inner and outer surfaces of the inner and outer shells, respectively, and the stopper *f*, adjustably secured on the said stem outside of the outer shell, substantially as herein shown and described.

2. The combination, with the outer shell, *a*, having apertures *i* in its inner end, and the spring-pressed spindle *d*, projecting through the outer shell, of the stopper *f*, consisting of the block *f'*, having the recess *f⁴*, the nuts *f²* *f³*, and the washer *l*, substantially as herein shown and described.

Witnesses: ADAM J. GEYER, JR.

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