(No Model.)

H. C. MONTGOMERY.

AUTOMATIC BALL SAFETY FAUCET.

No. 299,669. Patented June 3, 1884.

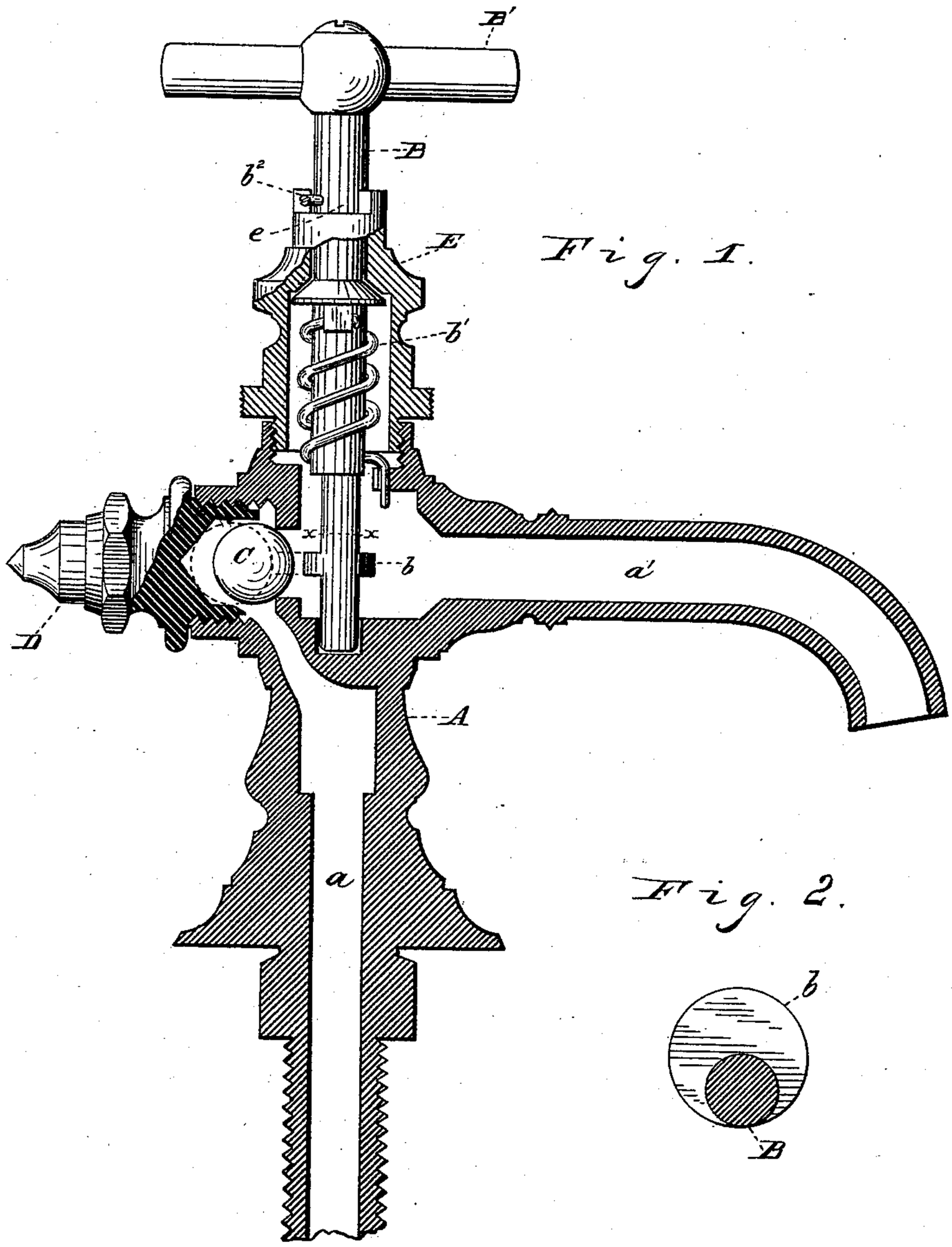

Fig. 1.

Fig. 2.

WITNESSES

W. Engel

Geo. W. King

Harry C. Montgomery INVENTOR

By Leggett & Leggett

ATTORNEYS

UNITED STATES PATENT OFFICE.

HARRY C. MONTGOMERY, OF CLEVELAND, OHIO, ASSIGNOR TO AUGUSTE ROMEAU, OF SAME PLACE.

AUTOMATIC BALL SAFETY-FAUCET.

SPECIFICATION forming part of Letters Patent No. 299,669, dated June 3, 1884.

Application filed May 31, 1883. (No model.)

To all whom it may concern:

Be it known that I, HARRY C. MONTGOMERY, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Automatic Ball Safety-Faucets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in automatic ball safety-faucets; and it consists of certain features of construction and in combination of parts hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a vertical sectional view of my improved faucet. Fig. 2 is a cross-section of valve-stem on the line of *x x*, Fig. 1.

A represents the body of the faucet; *a*, the receiving and *a'* the discharging passage-ways.

B represents the valve-stem; B', the handle; *b*, an eccentric, and *b'* a coil-spring, both attached to the stem B.

C is a ball-valve, shown as resting against the valve-seat, and made, preferably, of hard rubber.

D and E are screw-caps, the one closing the valve-chamber, and the other furnishing the support for one end of the rod B, and furnishing also a chamber in which operate the spring *b'* and a part of the valve-stem. The pin b^2, attached to the stem B and operating in the slot *e* of the cap E, furnishes a stop in both directions to the valve-stem.

The operation of the device is as follows: The way *a* leads behind the valve C, as shown, and the pressure of the water holds the valve against the seat. By turning the valve-stem the eccentric *b* is brought in contact with the valve and forces it from the seat or opens the valve. When the handle is released, the stem B is returned to its first position by means of the spring *b'*, and the valve C is closed upon its seat by the pressure of water behind it.

It will be seen that a breakage of the spring would not prevent the valve from being used, and that with a general disarrangement or breakage of the valve-stem and its connections still the valve would remain closed, so that no leakage would occur.

The valve C when not closed upon the valve-seat is free to turn in any direction, and is continually presenting a different part of its surface to engage the valve-seat, thereby causing the valve to wear evenly. By means of the cap D free access is had to the valve and to the valve-seat, and a new valve may be added at any time.

What I claim is—

1. The combination, with a faucet provided with a removable plug adapted to form the valve-chamber and a valve, the latter adapted to be held against its seat by the pressure of water, of a valve-stem provided with a projection, which latter is adapted to come in contact with the valve when the valve-stem is turned, substantially as and for the purpose set forth.

2. The combination, with a faucet provided with a valve-chamber, and a valve located within said chamber, of a valve-stem provided with a projection adapted to come in contact with the valve when the stem is turned, and a spiral spring encircling said stem, one end of the spring being secured to the stem, while the opposite end thereof is secured to the faucet, the said spring being adapted to hold the projection on the valve-stem away from the valve, substantially as set forth.

3. The combination, with a faucet provided with a removable valve-chamber and a socketed cap, E, of a ball-valve, the valve-stem provided with an eccentric, and a spring encircling the stem, for the purpose set forth.

4. The combination, with a faucet provided with a valve-chamber, a ball-valve located in said chamber, and a spring-actuated valve-stem provided with an eccentric for moving the ball-valve away from its seat, and the pin b^2, of the screw-cap E, provided with shoulders, against which the pin b^2 strikes, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 22d day of May, 1883.

HARRY C. MONTGOMERY.

Witnesses:
CHAS. H. DORER,
GEO. W. KING.