

J. Ashcroft,

Faucet.

No. 10,410.

Patented Apr. 5. 1870.

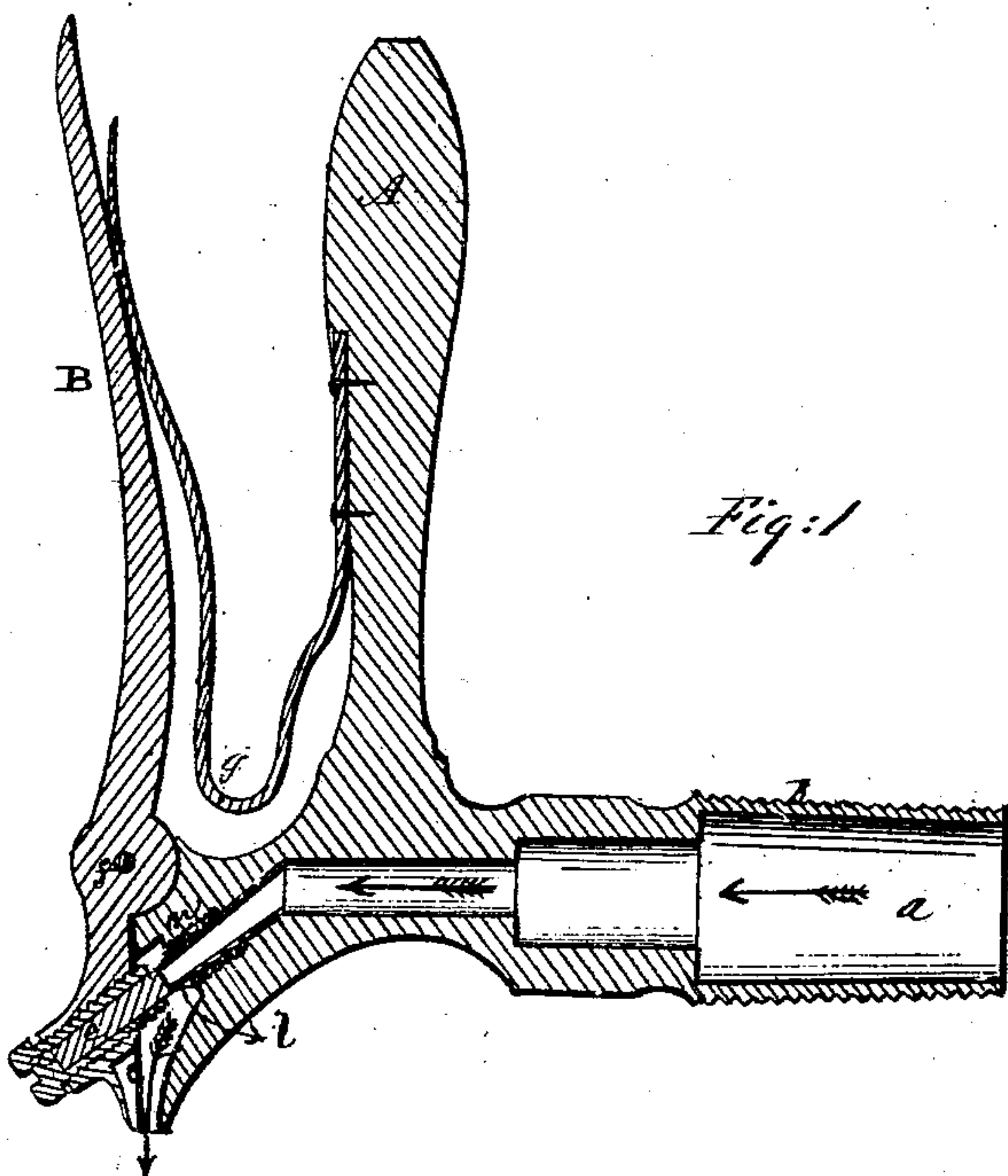


Fig: 1

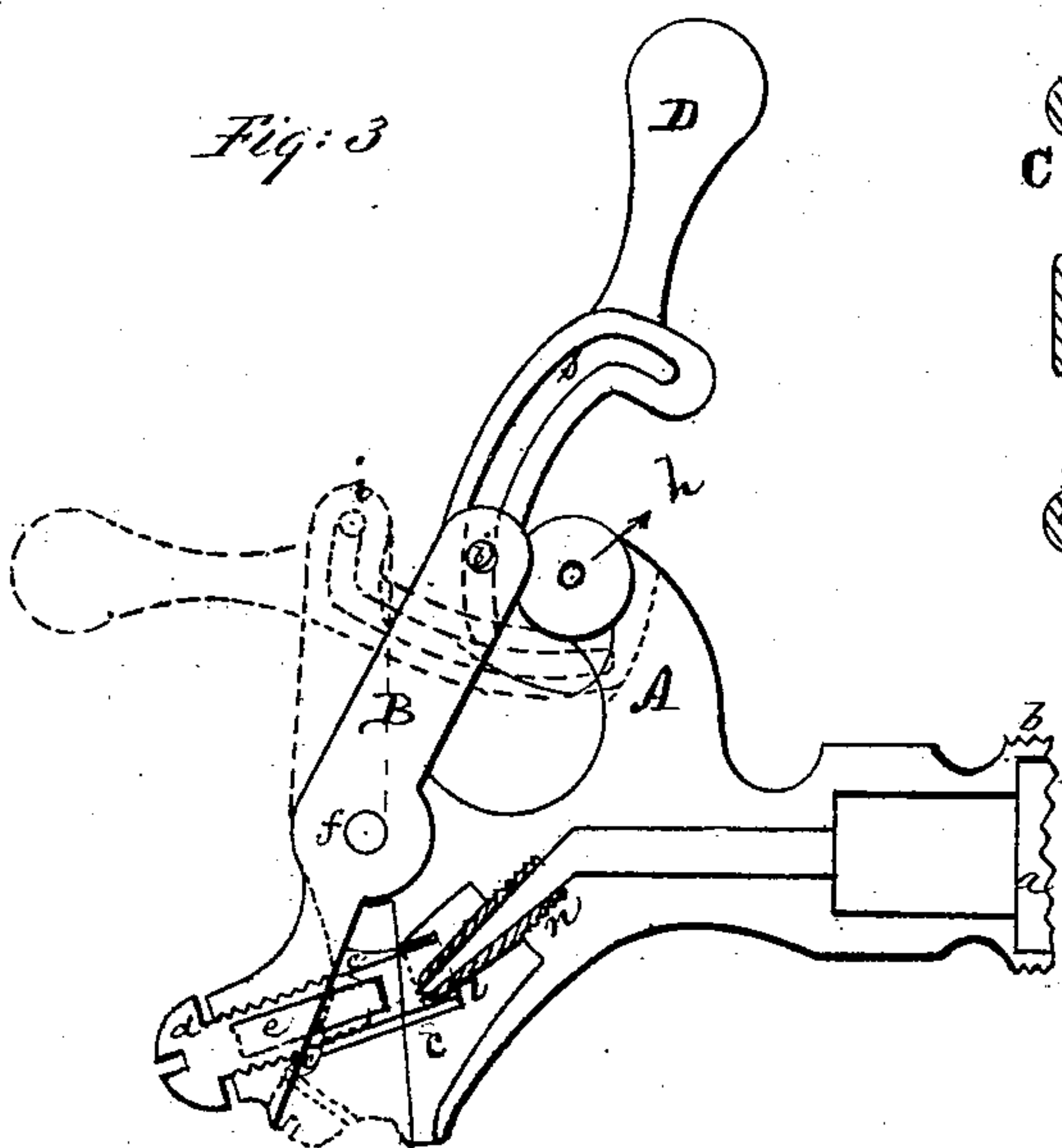


Fig: 3

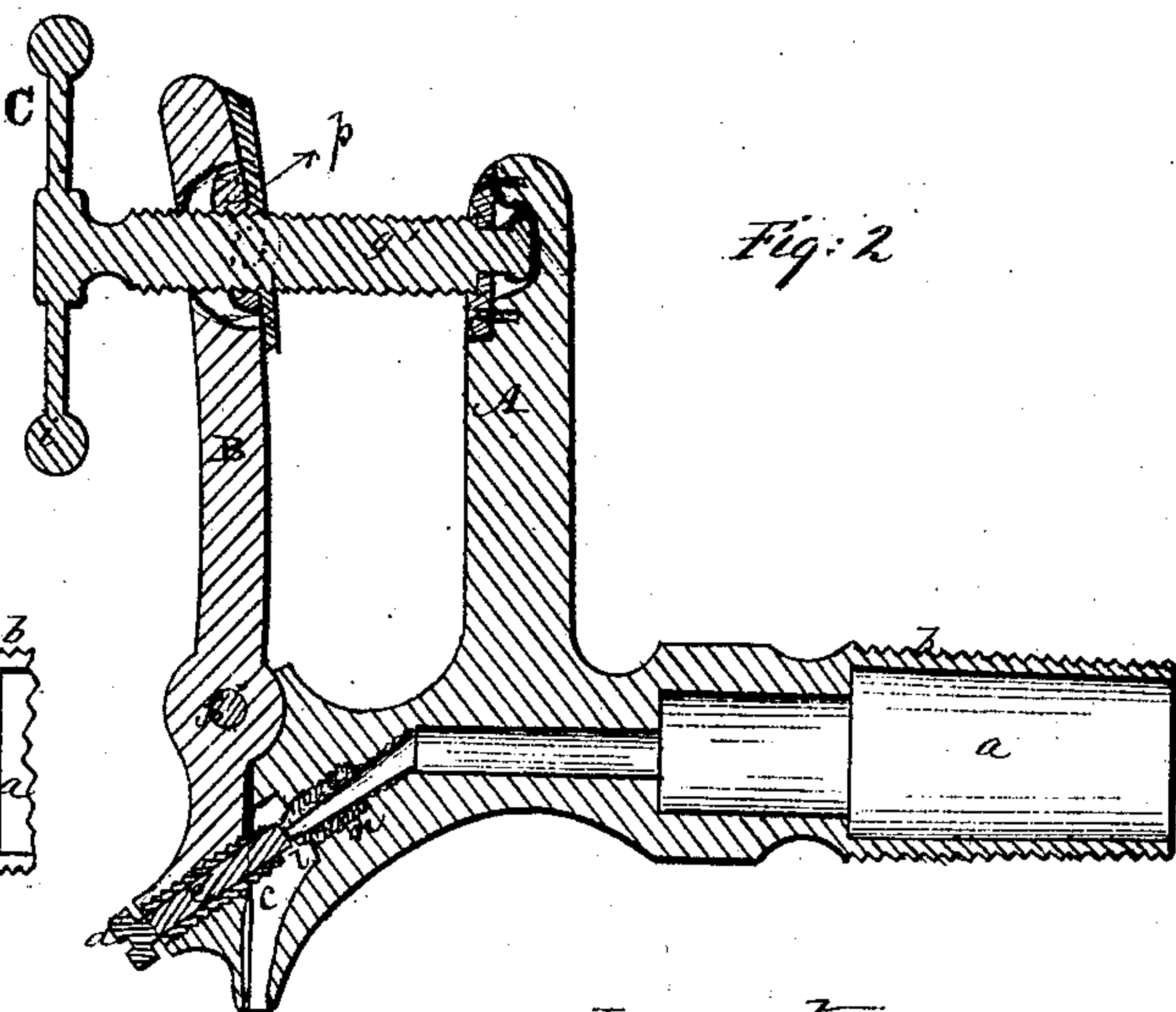


Fig: 2

attest { *O. B. Lester*
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UNITED STATES PATENT OFFICE.

JOHN ASHCROFT, OF NEW YORK, N. Y.

IMPROVEMENT IN FAUCETS.

Specification forming part of Letters Patent No. **101,410**, dated April 5, 1870.

To all whom it may concern:

Be it known that I, JOHN ASHCROFT, of the city, county, and State of New York, have invented a new and Improved Faucet, Cock, or Compression-Bib for Water or other Liquids, Steam, &c., of which the following is a specification.

The object of my invention is to produce a faucet which will not leak, the packing of which is easily adjusted or replaced, and which requires no grinding of the parts to procure tight joints, and which is secure, being automatic in one respect, easily opened or shut, and which is economical of manufacture. Its nature will be understood by referring to the accompanying drawings, in which—

Figure 1 represents a central section of my improved device, Figs. 2 and 3 showing modifications of the same.

In Fig. 1, *a* represents the barrel and main orifice, having a thread, *b*, to screw into a vessel containing any liquid, &c. It may be secured by soldering or otherwise. This main part is not very unlike in shape from that of most metal faucets. From the front end rises a projection or handle, *A*, to which is secured a spring, *g*, like the mainspring of a gun-lock; but any other shaped spring may replace it, and this spring presses against a handle, *B*, pivoted to the main stem at *f*. At the front of this stem is a cavity, *c*, leading downward, for the discharge-orifice. The orifice of the main stem terminates in a projecting lip, *l*, which may be cast on it or turned; or a nipple-seat, *n*, can be screwed in, for the packing in front to rest against. In the lower end of the handle *B*, I screw a hollow packing-seat, *d*, containing a cylinder, *e*, of any suitable packing material—such as rubber, cork, or their equivalents—and which packing projects beyond the end of *d*, as seen, and also abuts against the projecting annular lip *l*, and it is pressed against the same by the spring *g*. To enlarge the discharge-orifice the lower part of *B* may be cut away, as seen. The strength of the spring *g* must be such as to keep a tight joint between the packing *e* and the lip *l*. Should the former wear, *d*, its seat, can easily

be screwed in farther, and this is all that is required for repair. No grinding of the parts is necessary. It is very easy, if necessary, to take out the packing *e* and put in another new plug simply by unscrewing hollow screw packing-seat *d*. It will readily be seen that to open the cock the pivoted handle *B* must be pressed toward *A*, which removes packing *e* from lip *l*, and leaves an opening between them for discharge. Oftentimes cocks are unconsciously left open. This one shuts itself.

In the modification of my invention as shown in Fig. 2, instead of a spring between the arms *A* and *B*, I use a screw, *g'*, operated by a hand-wheel, *C*, (or its equivalent,) the screw working through a pivoted nut, *p*, secured to *B*, and suitably secured to *A*, as seen.

In Fig. 3 my device is further shown modified by using a slotted cam-lever, *D*, instead of a screw or spring. This lever is pivoted to *A* at *h*, and a pin, *i*, projecting from *B*, passes through the curved slot *s* of *D*. The operation of this will be readily understood by a reference to the drawings, the full lines of Fig. 3 showing the faucet open, and the dotted lines of the pivoted and slotted cam-lever showing it shut.

The pivoted lever *B* may have a projecting lip, as seen in Fig. 3; but this is not necessary. This may hold a packing, and the hollow screw *d* be dispensed with.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A faucet in which are combined spring *g*, the stationary handle *A*, and pivoted handle *B*, arranged, constructed, and operating in the manner substantially as shown and described, and for the purpose set forth.
2. The combination of the pivoted handle *B* with the adjustable screw packing-seat *d*.
3. The combination of pivoted handle *B*, packing-seat *d*, packing *e*, with the main stem and its lip *l*, constructed and arranged substantially as shown and described.

JOHN ASHCROFT.

Witnesses:

O. B. BESTOR,
FREDR. RUPP.