

J. FOOT & H. SCHILD.

Regulators for Stop-Cocks or Valves.

No. 149,211.

Patented March 31, 1874.

Fig. 1.

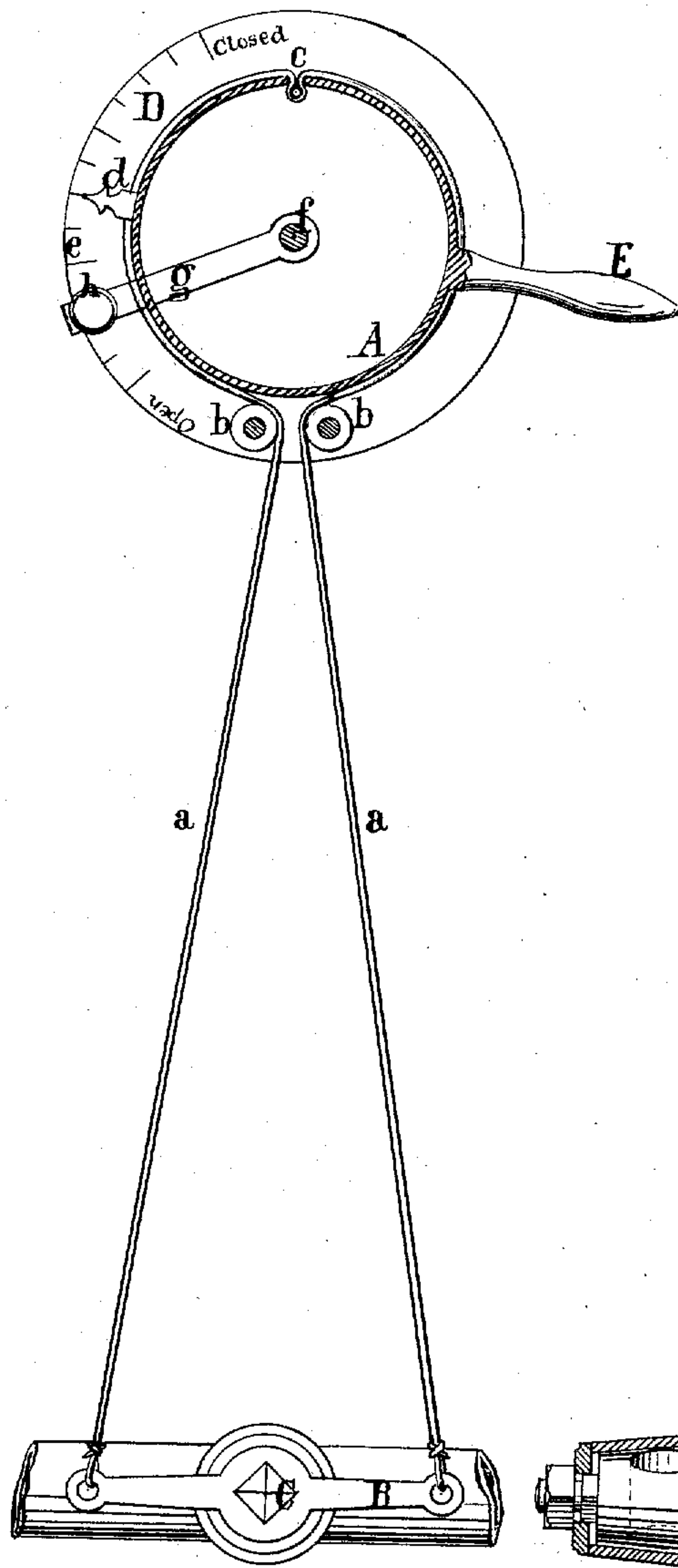
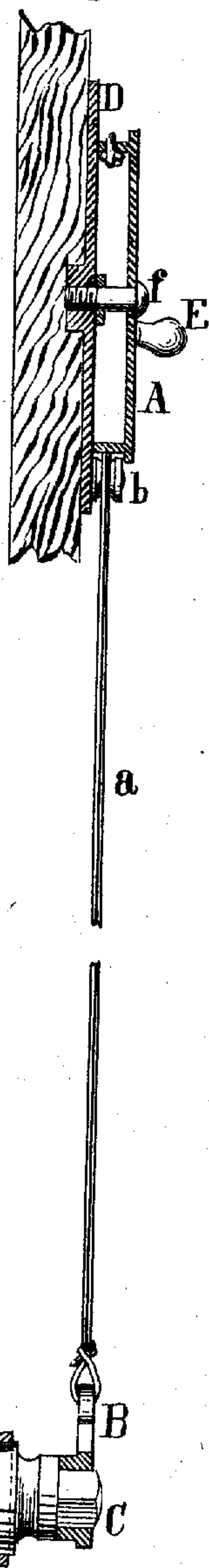


Fig. 2.



Witnesses.

Ernst Bilhuber.
Henry Gentner

Inventors.

Jethro Foot
Henry Schild
Van Santvoord & Hauff
Attors.

UNITED STATES PATENT OFFICE.

JETHRO FOOT AND HENRY SCHILD, OF NEW YORK, N. Y.

IMPROVEMENT IN REGULATORS FOR STOP-COCKS OR VALVES.

Specification forming part of Letters Patent No. **149,211**, dated March 31, 1874; application filed March 5, 1874.

To all whom it may concern:

Be it known that we, JETHRO FOOT and HENRY SCHILD, both of the city, county, and State of New York, have invented a new and Improved Regulator for Stop-Cocks or Valves; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a sectional front view of our invention. Fig. 2 is a transverse section of the same.

Similar letters indicate corresponding parts.

This invention consists in a drum which connects, by a chain or wire, with a double-armed lever secured to the plug of stop-cock, said drum being provided with an index which travels over a scale or dial in such a manner that, by turning the drum, the position of the plug or valve can be regulated, and a stop-cock or valve can be adjusted in the required position from a distance; for instance, the stop-cock which admits gas to a building, and which is generally situated in the cellar, can be set from any portion of the building where the regulating drum is secured. With the index and drum is combined an adjustable stop, which, when set at any desired point of the scale, prevents the index of the drum from passing this point.

In the drawing, the letter A designates a drum, which connects, by a chain or wire, *a a*, with a double-armed lever, B, that is secured to the plug C of a stop-cock, or to the equivalent part of a stop-valve. In the example shown by the drawing the connection between the drum and the plug is effected by a wire which is passed round the drum and thence over guide-rollers *b b* to the lever B, and in order to prevent the wire from slipping it is provided with a loop, *c*, which is let into a cavity in the circumference of the drum.

It is obvious that in place of the wire a chain or rope might be used, and the lever B might be replaced by a wheel, round which said chain or wire could be passed in the same manner as it passes round the drum A.

If the drum is situated at a considerable distance from the stop-cock—for instance, in a room in one of the upper stories of a building, while the stop-cock is situated in the cellar—several sets of guide-rollers or intermediate levers will be used to effect the connection somewhat in the same manner in which bell-wires are conducted throughout a building.

On the drum A is secured an index, *d*, which points on a scale, *e*, marked on the surface of the bed-plate, D, that supports the axis *f* of the drum, and also serves to fasten said drum in the required position. A handle, E, serves to turn the drum, and as the drum is turned the index shows the position of the plug or valve C. On the axis *f* of the drum is secured a swivel-arm, *g*, the outer end of which catches under the edge of the bed-plate D, and a set-screw, *h*, serves to fasten said swivel-arm in any desired position on bed-plate. When the swivel arm is secured it forms a stop which prevents the index *d* from passing a certain point on the scale *e*, and by said stop, therefore, the point to which the stop-cock or valve may be opened or closed can be determined.

This device is applicable to gas-cocks, or to the steam-valves of heating-pipes, or to any other valve of a similar nature, where it is desirable to open or close the cock or valve from a distance.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination of a drum, A, chain, rope, or wire *a*, lever or wheel B, and plug or valve C, with an index, *d*, and dial-plate, D, substantially as shown and described.

2. The stop *g*, in combination with the dial-plate D, index *d*, plug or valve C, lever or wheel B, and drum A, substantially as set forth.

JETHRO FOOT.
HENRY SCHILD.

Witnesses:

W. HAUFF,
E. F. KASTENHUBER.