

H. L. BROWN.
Burglar-Alarms.

No. 145,332.

Patented Dec. 9, 1873.

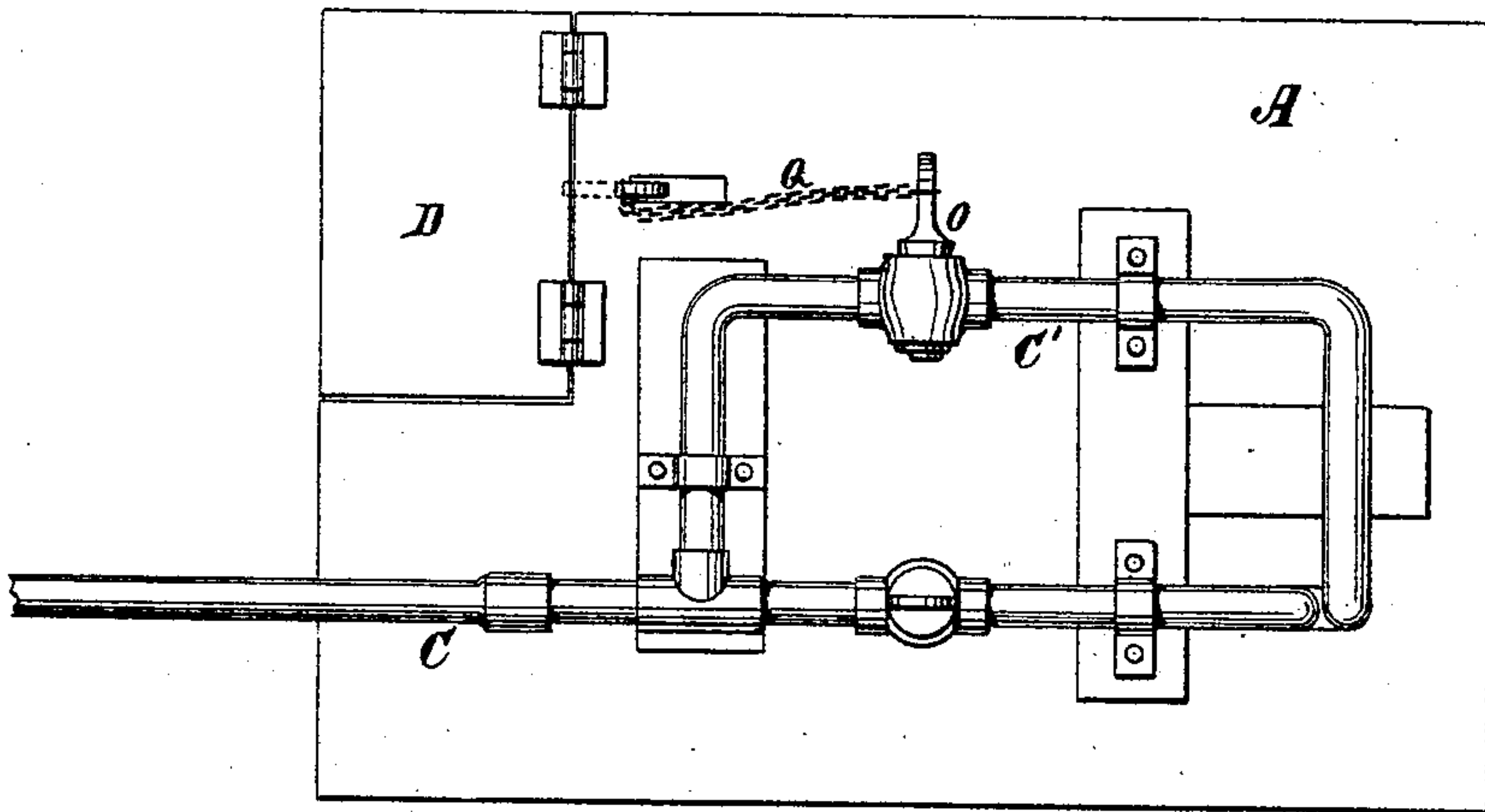


Fig. 1.

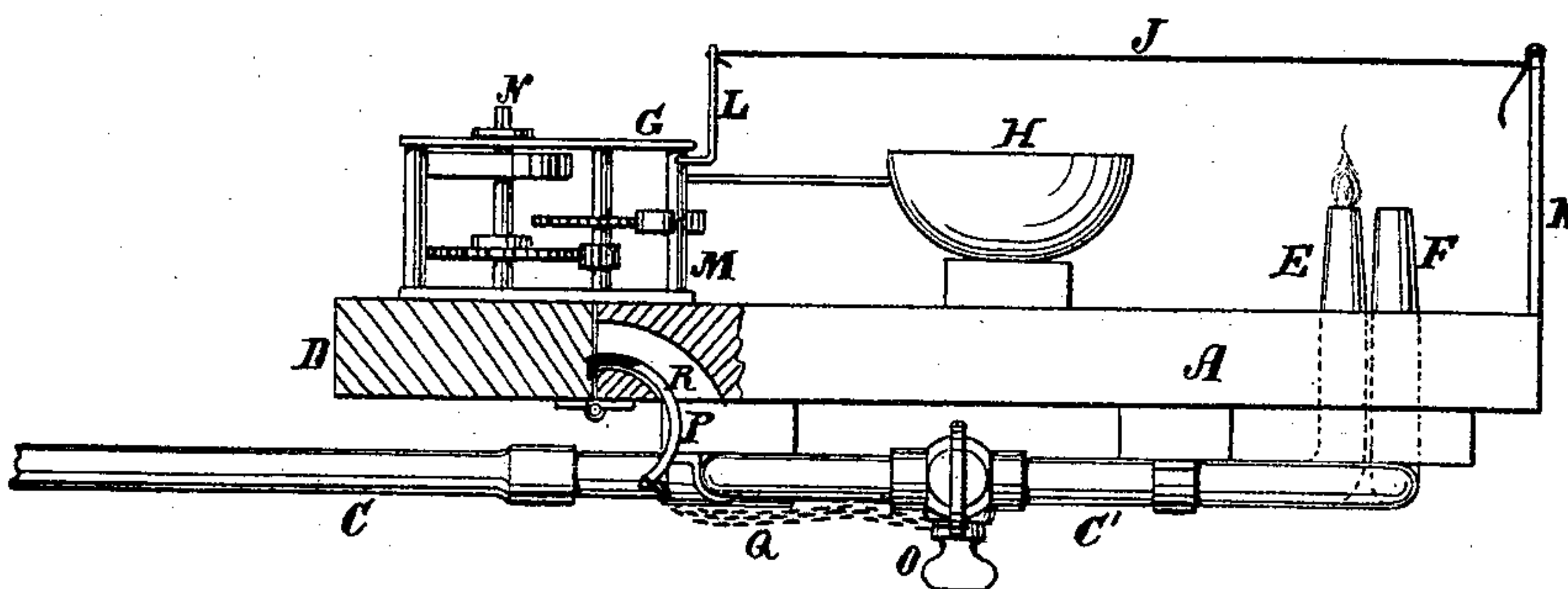


Fig. 2.

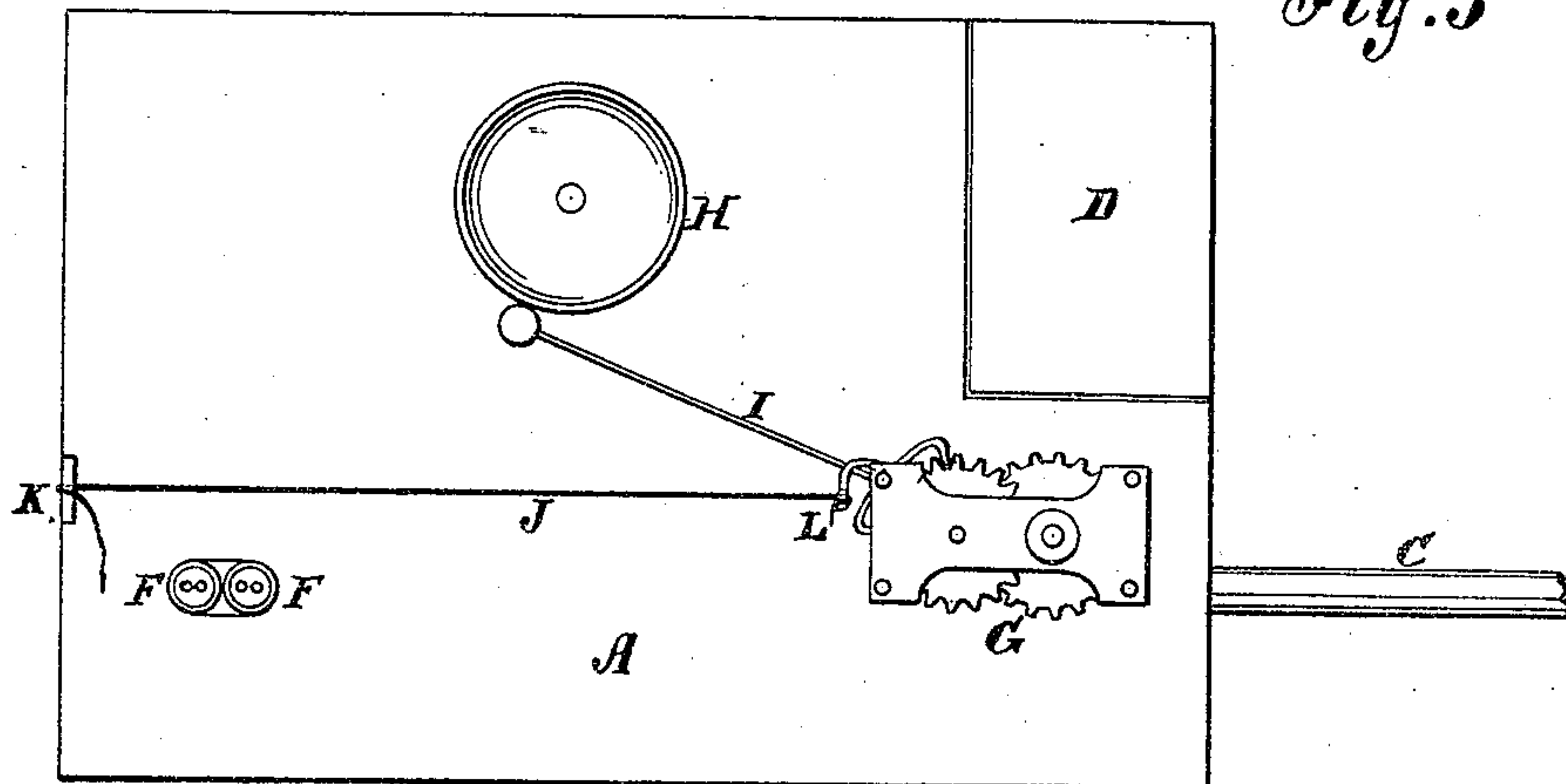


Fig. 3.

WITNESSES:

A Bennekenhof.
S. J. J. J.

INVENTOR:

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BY *[Signature]*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY L. BROWN, OF MIDDLETOWN, CONNECTICUT.

IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. **145,332**, dated December 9, 1873; application filed November 8, 1873.

To all whom it may concern:

Be it known that I, HENRY L. BROWN, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new and useful Improvement in Burglar-Alarms, of which the following is a specification:

The object of this invention is to provide simple and convenient means for detecting burglars when entering buildings; and consists of an alarm movement and bell, in combination with a wire or cord and gas-burners, so arranged that, in the act of opening the door or window with which the alarm is connected, gas is turned on, a flame is produced, and the alarm given.

In the accompanying drawing, Figure 1 is a side view, showing the gas-pipe connected with the alarm. Fig. 2 is a top view. Fig. 3 is a side view, showing the front or "movement" and alarm-bell with the gas-burners and setting-wire.

Similar letters of reference indicate corresponding parts.

A is a plate to which the apparatus is attached, but which represents the wall of the building. C C' are gas-pipes which are arranged upon one side, with the burners passing through the wall. D represents the door with which the alarm is connected. E F are the gas-burners. G is the alarm-movement, made in the usual manner and connected with the alarm-bell H by the hammer-rod I. J is a wire or cord, which is attached to the arm K in the wall and to the arm L, which is attached to and projects from the escapement-shaft M of the alarm-movement. The alarm-movement is wound up by means of a key on the main shaft N, and is held and prevented from giving the alarm by the wire J. This wire is attached to the vibrating escapement-shaft by a crank, so that the movement is held stationary by it. When this wire is broken or parted the alarm is given. The gas-pipe C is connected with the service-pipe, and the burner E, on the end thereof, is supplied with a small jet of gas, which is ignited when the alarm is set for use. The gas-pipe C' may be a branch of C, as seen in the drawing, or it may be con-

nected so as to convey gas to its burner F from any other source. O is the cock to this pipe. P is a circular bar rigidly attached to the door D. This bar is attached to the gas-cock O by means of the chain or cord Q. The circular bar P works in the curved opening R in the wall. When the door is opened this bar is drawn back, the gas-cock is turned, which admits of a flow of gas through the pipe to the burner F. The two burners are so formed and placed so near each other that the gas which escapes from the burner F is ignited by the flame from the burner E. The burner F gives a full flame, which envelops the wire J and, in a few seconds, burns it off, and allows the alarm movement to vibrate the hammer and give the alarm.

This alarm, as represented in the drawing, is adapted to doors, but, by a slight modification in the manner of turning the gas-cock, it may readily be applied to windows. The arrangement in either case may be such that a slight opening of the door or window will turn on the gas, and not only give an alarm, but illuminate the apartment.

I do not confine myself to the precise arrangement of the parts shown, as variations may be made in many ways without departing from my invention.

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

1. In combination with an alarm mechanism, a combustible trip-cord, or its equivalent, and a gas-supply pipe provided with a suitable stop-cock, connected with a device operated by the door or window, and a supplementary flame or burner, substantially as shown and described, whereby, when said door or window is opened, the gas will be let on and ignited, and the alarm sounded, as set forth.

2. The wire or cord J and burners E and F, in combination with a burglar-alarm, substantially as described.

HENRY L. BROWN.

Witnesses:

GEO. E. TIDD,
S. O. BARROWS.