

C. COTTRELL.
 TIME DROP ATTACHMENTS FOR ALARM CLOCKS.
 No. 182,562. Patented Sept. 26, 1876.

Fig: 1.

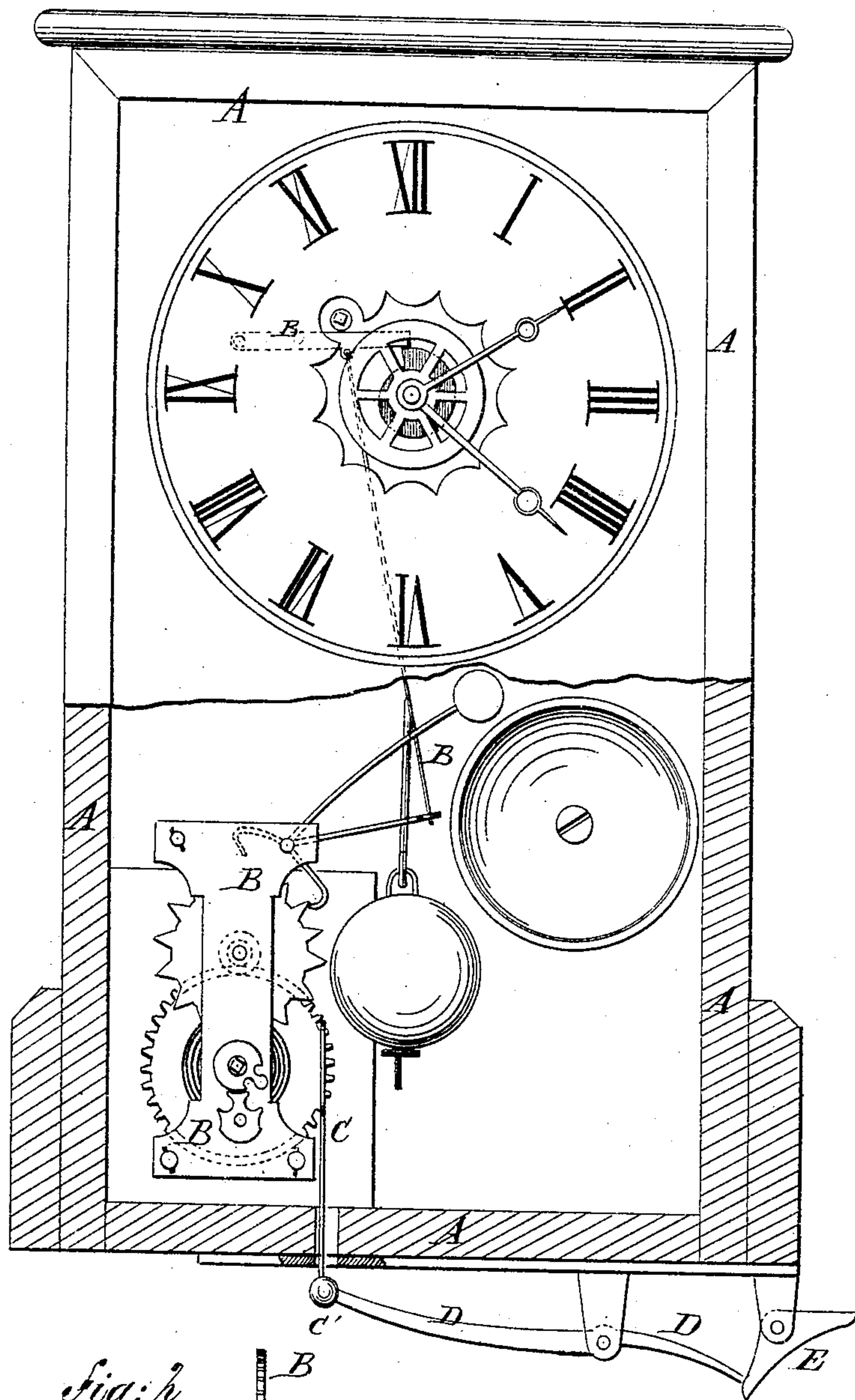
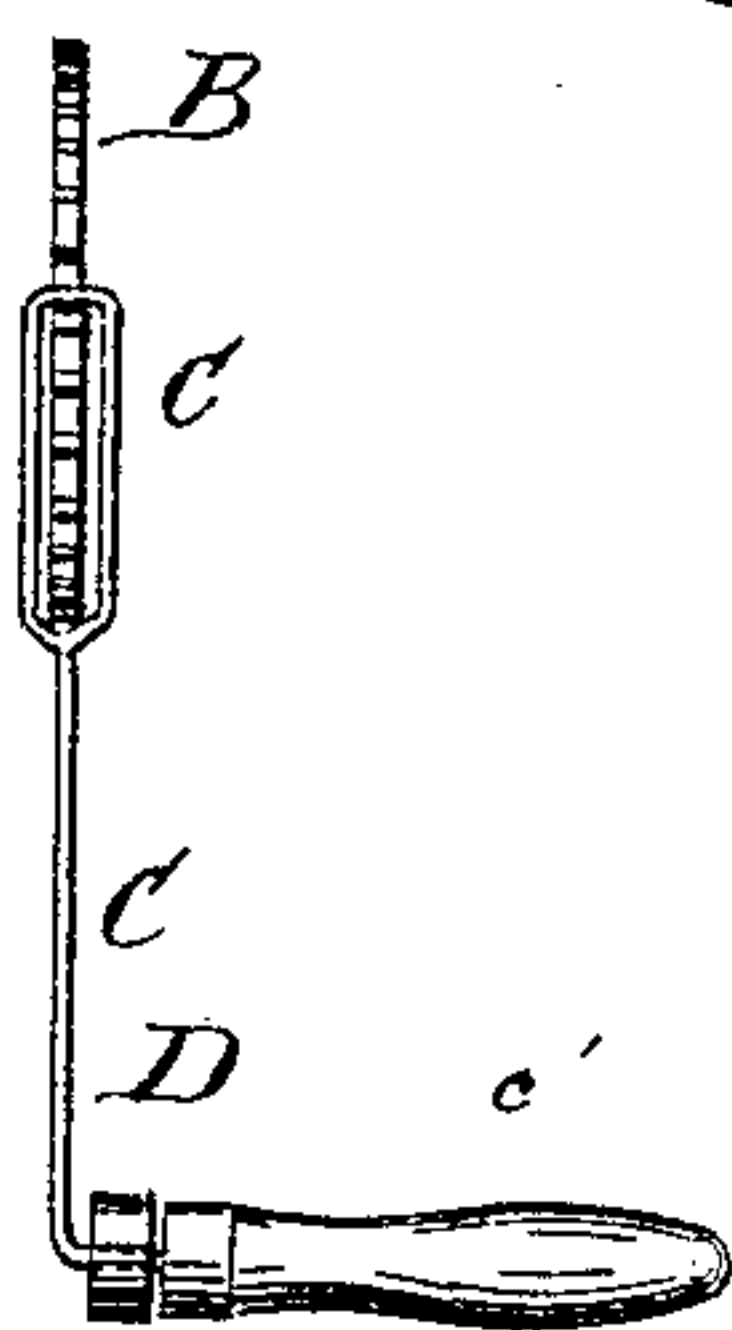


Fig: 2



WITNESSES:

Chas. Nida
John Goethals

INVENTOR:

C. Cottrell
 BY *Munn*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES COTTRELL, OF NEWPORT, RHODE ISLAND.

IMPROVEMENT IN TIME-DROP ATTACHMENTS FOR ALARM-CLOCKS.

Specification forming part of Letters Patent No. **182,562**, dated September 26, 1876; application filed September 2, 1876.

To all whom it may concern:

Be it known that I, CHARLES COTTRELL, of Newport, county of Newport, and State of Rhode Island, have invented a new and Improved Time-Drop Attachment for Alarm-Clocks, of which the following is a specification:

In the accompanying drawing, Figure 1 is a front view of a clock to which my improved attachment has been applied, the lower part of the case being in section, to show the construction; and Fig. 2 is a detail view of a part of the attachment.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved attachment for alarm-clocks, which shall be so constructed as to drop or release any desired object at any fixed time, and which shall be simple in construction, convenient in use, and reliable in operation.

The invention consists in the combination of the loop-rod, the lever, and the obtuse-angled lever with an alarm mechanism and a clock, as hereinafter fully described.

In the drawing, A represents an ordinary clock. B represents an ordinary alarm mechanism, which is connected with the clock A in the usual way. C is a rod, which passes through the bottom of the case of the clock A, and has a loop formed upon its upper end, to enable it to be hung upon the teeth of the wheel of the alarm mechanism B, as shown in Figs. 1 and 2. To the lower end of the loop-rod C is pivoted the end of a lever, D, which is pivoted to the bottom of the clock A when said clock is attached to a wall, and to the bottom of a shelf, when the said clock stands upon, and is secured to, a shelf. The other end of the lever D rests against the arm of an ob-

tuse-angled lever, E, which is pivoted at its angle to the bottom of the clock, or to the shelf to which said clock is attached, so that its other arm may project beyond the end of the said bottom or shelf. The loop-rod C, the lever D, and the obtuse-angled or cam-lever E are so arranged that the operation of hanging the loop-rod C upon a wheel of the alarm mechanism may raise the free end of the obtuse-angled lever E into a horizontal position, so that it may receive and hold any object hung upon it.

With this construction, as soon as the alarm mechanism starts, the loop-rod C will drop, which withdraws the end of the lever D from the arm of the angle-lever E, so that the object hung upon, or from, its other arm may drop.

In case it is not wished to sound an alarm when the alarm mechanism B starts, the bell, or hammer, or both, may be detached. The device may be connected with the door of a furnace to turn on the draft; with the faucet of a water-pipe, to turn off or on the water; or with the valve of a gas-pipe, to turn off the gas; or with any other desired object. The lower end of the loop-rod C may be provided with a handle, C', for convenience in hanging it upon a wheel of the alarm mechanism B.

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

The combination of the loop-rod C, the lever D, and the obtuse-angled lever E with an alarm-mechanism, B, and a clock, A, substantially as herein shown and described.

CHARLES COTTRELL.

Witnesses:

SILAS H. COTTRELL,
THOS. BREESE.