

(No Model.)

T. H. SHIPWAY & J. R. DOWDELL.
ANNUNCIATOR.

No. 421,439.

Patented Feb. 18, 1890.

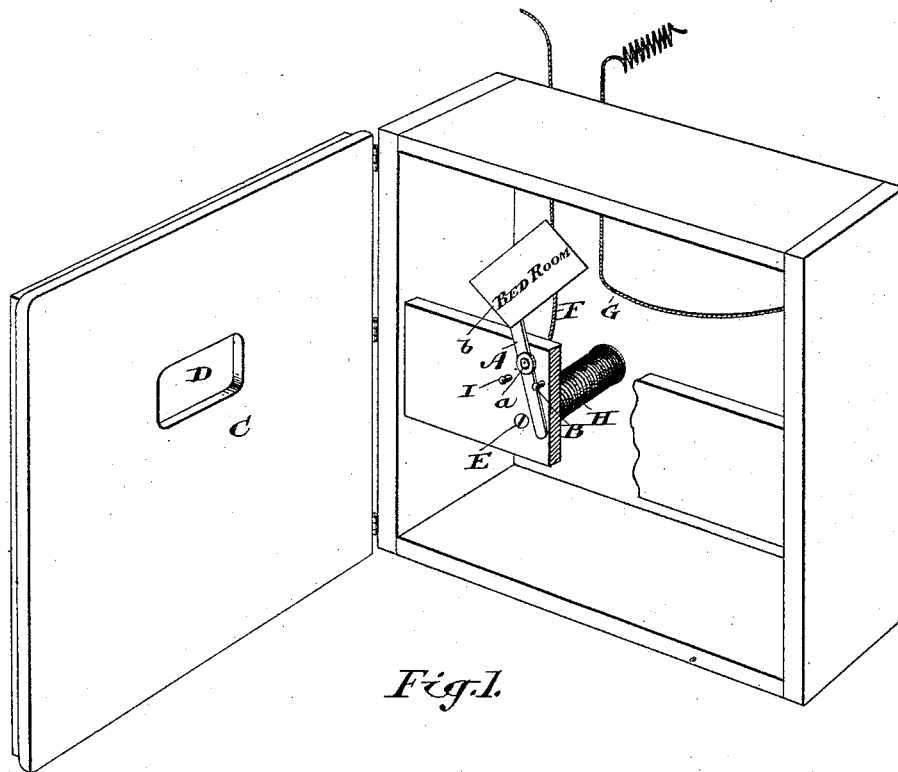


Fig. 1.

Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS H. SHIPWAY AND JAMES R. DOWDELL, OF TORONTO, ONTARIO,
CANADA.

ANNUNCIATOR.

SPECIFICATION forming part of Letters Patent No. 421,439, dated February 18, 1890.

Application filed October 9, 1889. Serial No. 326,468. (No model.)

To all whom it may concern:

Be it known that we, THOMAS HENRY SHIPWAY and JAMES ROBERT DOWDELL, both electricians, and both of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have jointly invented a certain new and useful Improvement in Annunciators, of which the following is a specification.

10 The object of the invention is to provide a simply-constructed and easily-operated drop for an annunciator; and it consists, essentially, of an arm pivoted on the face of the annunciator-frame in such a manner that the
15 said arm will drop at right angles to the center of the magnet the instant that the circuit is completed through the same.

The figure is a view of an annunciator with its door open to expose our improved pivoted
20 arm or drop.

A is an arm pivoted at *a*, and having a weighted end *b*, on which the number or name to be exposed is placed.

25 B is a stop-pin against which the arm A butts when in an oblique position, in which oblique position the number or name on the said arm is held behind the door C away from the opening or glass D.

30 E is a screw, which is connected to the magnet and secures the said magnet to the frame of the annunciator. When the button is pressed to form a circuit through the wires F G and magnet H, the lower end of the arm A is directed toward the magnetized screw E,

and as at this point the weighted end of the arm A is past the center of gravity, the said
35 weighted end of the arm carries its opposite end past the magnet until it strikes the stop-pin I, at which point the arm A is in such a position that the number or name attached
40 to the said arm is immediately opposite to the opening or glass D.

We of course do not confine ourselves to the use of a screw E. The only point to be
45 observed is to see that the arm A is pivoted in proximity to the magnet H in such a manner that when the said magnet is electrified it will immediately act upon the arm, as stated.

What we claim as our invention is—

50 The annunciator herein described, consisting of the case having a sight-opening in the door therein, the supporting-bar in said case, the stops on said bar arranged in a line, the arm pivoted intermediate of its ends and carrying the indicator-plate, the magnet having
55 one end supported against the back of the case, and its core supported in the bar of the case and in line with the pivot of the arm, and the circuit-wires.

Toronto, August 17, 1889.

THOMAS H. SHIPWAY.
JAMES R. DOWDELL.

In presence of—

A. M. DENOVA,
Barrister.

F. A. LONGBOTTOM,
Clerk.