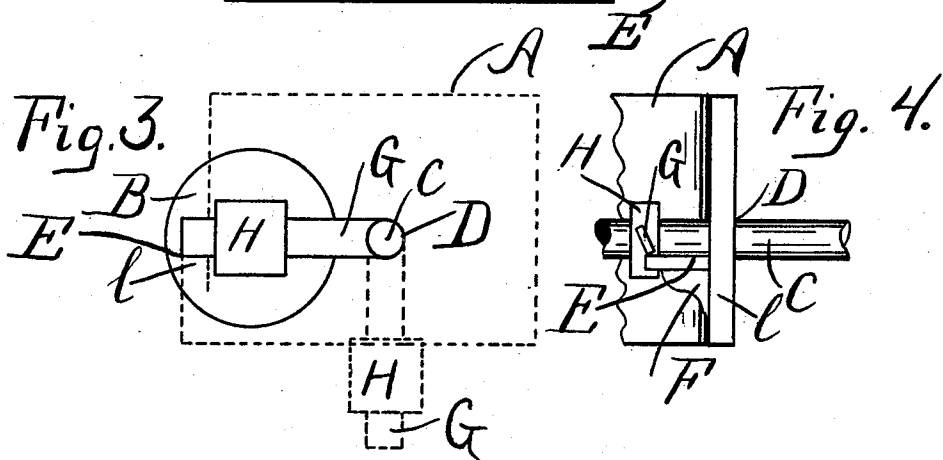
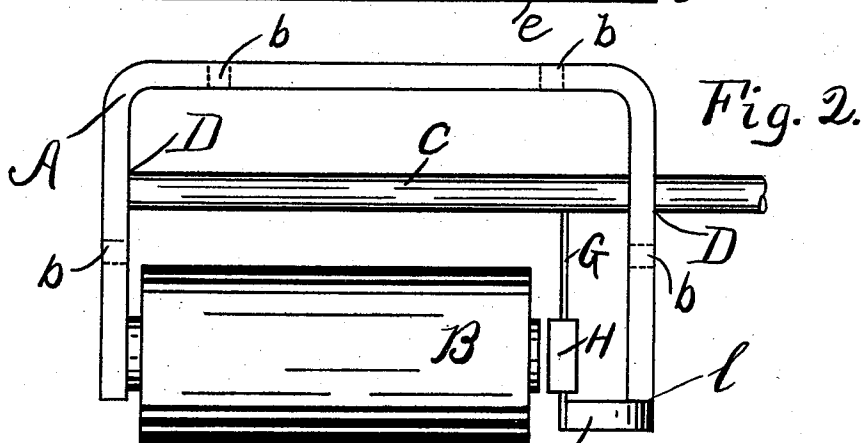
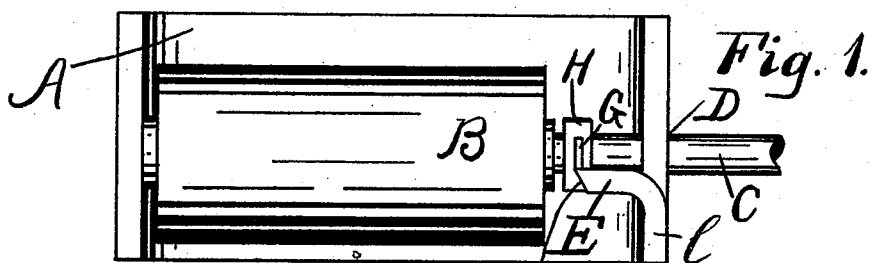


(No Model.)

C. E. BEACH.
ANNUNCIATOR.

No. 568,423.

Patented Sept. 29, 1896.



WITNESSES:

C. E. Beach.
Chas. W. Bennett, Jr.

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BY

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UNITED STATES PATENT OFFICE.

CLARENCE EDWARD BEACH, OF BINGHAMTON, NEW YORK.

ANNUNCIATOR.

SPECIFICATION forming part of Letters Patent No. 568,423, dated September 29, 1896.

Application filed August 16, 1895. Serial No. 559,564. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE EDWARD BEACH, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Annunciators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in annunciators, and has for its object the production of an automatic device which will be rendered more simple than those now in use and capable of being inexpensively manufactured.

With these and other objects in view my invention consists of certain new and novel features of construction and arrangements of parts, all of which will now be fully described, and finally embraced in the claims.

Referring to the drawings accompanying and forming a part of this specification, in which like letters of reference denote the same parts throughout the several views, Figure 1 is an elevation of my invention. Fig. 2 is a plan of the same. Fig. 3 is an end elevation, and Fig. 4 is a modification of the ledge E.

In constructing my invention I provide a frame A, made of suitable material and of such form as will permit the same to be secured to the wall of a box or other arrangement of which it may form a part. The means for securing the frame to such part may be accomplished by providing that portion of said frame contingent to the part to which it is designed to be secured with one or more screw-holes *b*. One or more magnets B, of ordinary construction, are secured within the frame in such a manner that an armature may be actuated by said magnet or magnets in the usual manner. Said frame is provided at opposite ends with openings D for the reception of a suitable shaft C. The shaft is secured within the openings preferably parallel with the poles of the magnet in

such a manner that said shaft is capable of rotary motion within said openings.

A certain portion of the frame, as at 1, is provided with a ledge E, extending in the direction of the magnet. Said ledge may be formed by cutting a longitudinal slit within the frame, as shown in Figs. 1, 2, and 3, and bending the portion at an angle with the frame, and it may consist of a separate piece F, secured to the frame in any common manner, as shown in Fig. 4. When the frame is cast of one piece of metal, the projection may become a part of said frame and be cast therewith. The face *e* of said ledge may be brought to an angle, as shown in Fig. 1, for the purpose of facilitating resetting the armature, or the arm G may be constructed in such a manner that it describes an angle with its line of motion that when said arm comes in contact with the face *e* of the ledge the inclination of either the arm or the face of said ledge will cause the arm to spring toward the magnet, and when it has passed the upper portion of said ledge the arm or armature will again assume a position thereon. The arm G is secured to the shaft C in a manner that will permit said arm to revolve therewith. Said arm is made of spring-steel or other material so constructed that it will permit a reciprocating and oscillating movement of the armature, so that said armature may attain a position as shown by the dotted lines in Fig. 3.

The armature H is connected to or may be the free end of arm G and is located in such a position that when the end of the arm or armature rests upon the ledge E it can be suitably influenced by the magnet.

This completes the construction of my invention, whose operation is as follows:

The frame A of my apparatus is secured to the box or device, of which it may form a part, in such a manner that when the said armature is moved toward the magnet the free end of the arm G or armature will disengage the ledge E and allow said armature to take the position shown in dotted lines of Fig. 3 and thus impart a portion of a revolution to the shaft to which it is connected and all the parts that may be connected to said shaft.

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

1. A magnet, an arm or armature mounted
5 on a revoluble part to rotate therewith, and having an independent vibratory motion in the direction of said magnet; said arm or armature being adapted to engage its free end with a ledge or other projecting part as and
10 for the purpose described.

2. A revoluble part, a magnet, an armature

mounted on the revoluble part to rotate therewith and having an independent vibratory motion in the direction of said magnet together with a ledge for holding the armature 15 as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

CLARENCE EDWARD BEACH.

Witnesses:

J. VICTOR SCHAD,

J. S. SMITH.