W. A. BRICE.

ADVERTISING DEVICE.

No. 187,252. Patented Feb. 13, 1877.

fig. 1.

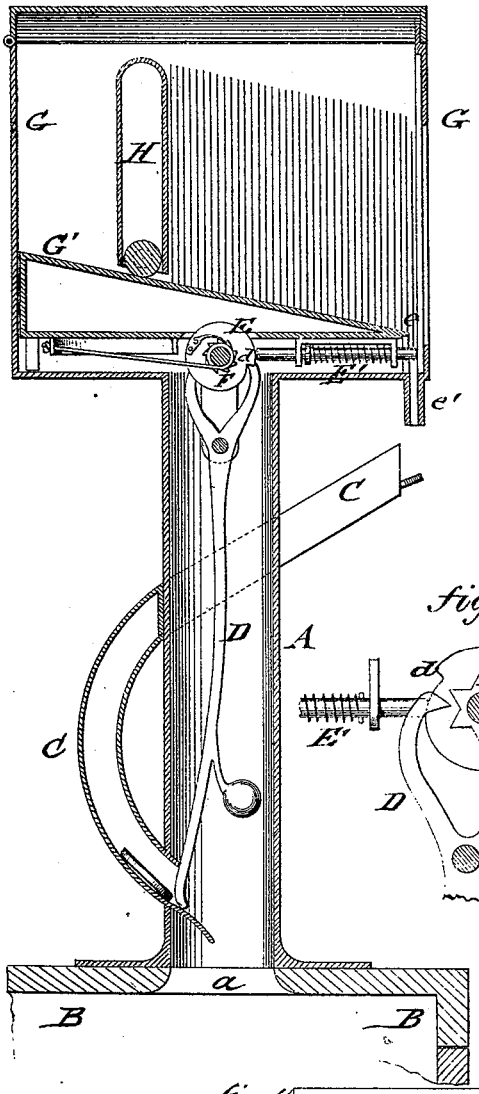


fig. 2.

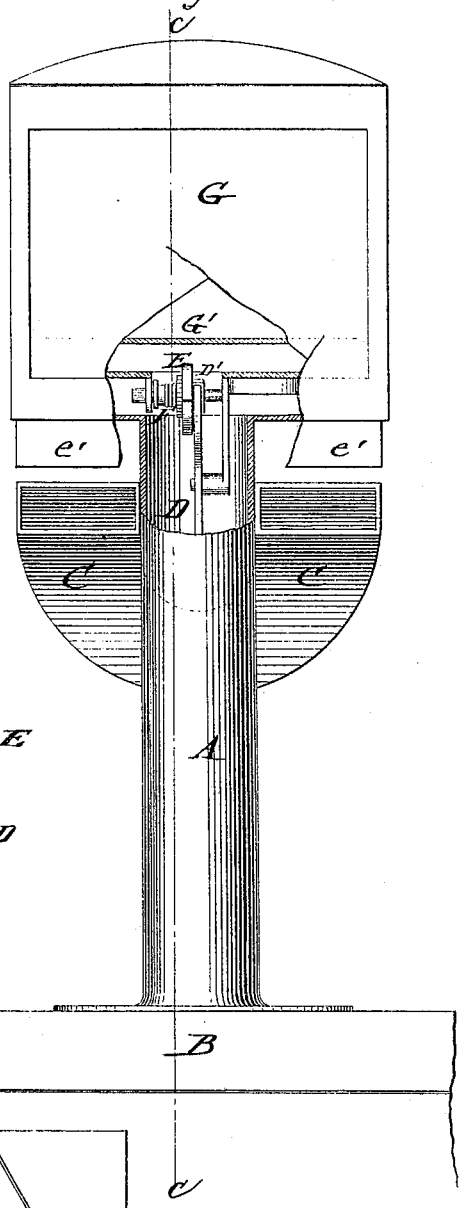


fig. 3.

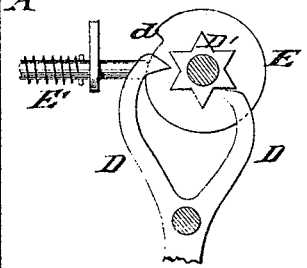
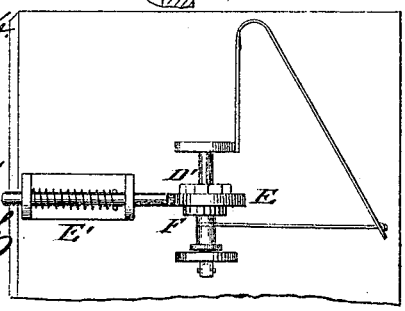


fig. 4.



WITNESSES:

Gustave Dietenick

J. H. Scarborough

INVENTOR:

W. A. Brice.

BY Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM A. BRICE, OF LONDON, ENGLAND.

IMPROVEMENT IN ADVERTISING DEVICES.

Specification forming part of Letters Patent No. **187,252**, dated February 13, 1877; application filed October 23, 1876.

To all whom it may concern:

Be it known that I, WM. A. BRICE, of London, in the county of Middlesex, England, have invented a new and Improved Advertising Money-Box, of which the following is a specification:

The object of my invention is to provide an elegant, and at the same time remunerative, manner of giving advertisements automatically by the dropping of one or more coins in an aperture or apertures provided for the same, while at the same time the coins, after effecting their work, drop into the till or cash-box placed underneath for their reception.

The invention consists of one or more curved guide-tubes, through which the coins are conducted to a cash-box or till, thus coming in contact with and moving a pendulum-lever, that operates an escapement-wheel, which, in connection with a spring-acted cam-wheel, allows a spring-bolt at a certain moment to be withdrawn, so as to release one of the advertisement-cards contained in a box above. The advertisement-cards, photographs, &c., are fed forward to the slit and exit-tube of the box by an inclined bottom and movable roller-frame or follower.

In the accompanying drawing, that illustrates my invention, Figure 1 represents a vertical longitudinal section of my improved advertising money-box; Fig. 2, a front view of the same, with part broken off to show interior arrangement; Fig. 3, a detail side view of spring-bolt actuating mechanism; and Fig. 4, a detail bottom view of the spring-bolt mechanism.

Similar letters of reference indicate corresponding parts.

In the drawing, A represents a central hollow column or support, which is secured at the base to a till or cash-box, B, that communicates with the column by an aperture, *a*, of suitable size. Around the column A extends a spirally-curved tube, C, which, for the sake of symmetry, is preferably branched out into two parts, with openings at the upper end or ends, through which the coins are introduced. The cross-section of the curved conducting-tube C is of oblong shape, adapted to about the width and thickness of the coins to be dropped therein—as, for instance, pennies, cents, or other small coins. The lower end of the conducting-tube C opens into the column A, where a pendulum-lever, D, is guided in front of the aperture, which lever is so balanced by a spring or counter-weight that the coin, falling against it, will move the lever back, and pass first into the column and then into the till. The pendulum-lever D is hung, near the upper end, to a pivot-support, and made of fork shape to engage a toothed wheel, D′, which is worked in the nature of an escapement-wheel similar to the one in clock-trains. The escapement-wheel D′ is arranged with as many teeth as coins are required to be thrown into the box to release one of the advertising-cards, photographs, &c., placed into a box or case, G, supported at the top of the column A. Either attached to or placed on the arbor or shaft of the escapement-wheel D′ is a cam-wheel, E, and a ratchet-wheel and pawl, F.

The shaft of the cog-wheel D′ is actuated either by a spring, pulley, and cord, as shown in Fig. 4, or by a weight applied to the cord or otherwise, the spring or weight being set or wound up by a key fitted on the end of the cam-shaft, and the cog-wheel being moved forward for one tooth at each dropping of a coin.

The cam-wheel E is provided with a notch or recess, *d*, into which a sliding and spring-acted bolt, E′, is thrown when the required number of coins has been deposited in the box, the cog-wheel D′ having then completed its revolution.

The money-box shown in the drawing is arranged for six coins, the cog-wheel having six teeth, so as to admit only the motion of the spring-bolt when six coins have been dropped. The apparatus may be arranged, however, for a greater or less number of coins, according to the purpose and the value of the advertising devices to be dropped from the top box G.

The spring-bolt E′ bears, by its front end, against the front part of the case or box G. A number of advertising devices—as cards with photographs, almanacs, &c.—are placed in the box and fed gradually to the narrow slit *e* above and exit-tube E′ below the bolt, through which the card is allowed to escape when the bolt is withdrawn, the form of the notch *d* in the wheel E being such that the bolt remains withdrawn sufficiently long for

this operation to take place. The cards are moved forward on an inclined plane, G′, forming the bottom of the box, by a movable frame, H, with a roller at the lower part of the same. The roller and frame pass by their own weight along the inclined bottom, and push the cards by an even pressure before it, preventing their getting displaced.

The frame and roller are designed to be made as light as practicable, and, in practice, suitable anti-friction devices will be employed, if necessary, to facilitate the fall of the cards or photographs at the required time. The cards themselves having a glazed surface, there will be but slight friction between them.

The front of the top box G is of glass, through which the cards are seen, so as to induce the lookers-on to obtain one by dropping the required number of coins.

The exit-tube *e′* is of such length that the bolt E′ cannot be tampered with by a knife or other tool.

The top part of the box is hinged and secured by a suitable lock, which is opened for placing the advertising devices into the box, and closed during use.

To obtain the regular forward motion of the cards to the opening through which they are to fall, when released, in successive order, it is necessary to provide a pressure which shall not be too considerable, and which shall be uniform throughout, whether the box is full of cards or whether there remain only a few. This is accomplished by my movable frame, that feeds the cards evenly, according as they are taken out by the insertion of the required number of coins, the apparatus forming thus a reliable and attractive automatic, and at the same time remunerative, advertising medium for business, charity, and other purposes.

In respect to the use of the roller-frame H, I do not claim, broadly, a roller acting on an inclined surface as a follower for cards, tickets, &c.

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

1. The combination, with the card receptacle or case G, having an inclined bottom, G′, and a slot, through which the cards are discharged, of the frame H, supported upon a roller, and arranged to operate in the manner shown and described.

2. The combination of conducting tube or tubes, a weighted pendulum-lever, the escapement and cam mechanism, substantially as described, actuated by spring or weight, and a sliding spring-bolt, that is withdrawn by the action of the required number of coins on the pendulum-lever, to release an advertising-card, substantially as specified.

WILLIAM ALEXANDER BRICE.

Witnesses:

EDWIN V. BELL,

W. I. WEEKS.