No. 690,179. Patented Dec. 31, 1901.

C. PERDRISAT.

AUTOMATIC DELIVERY APPARATUS.

(Application filed Dec. 13, 1900.)

(No Model.)

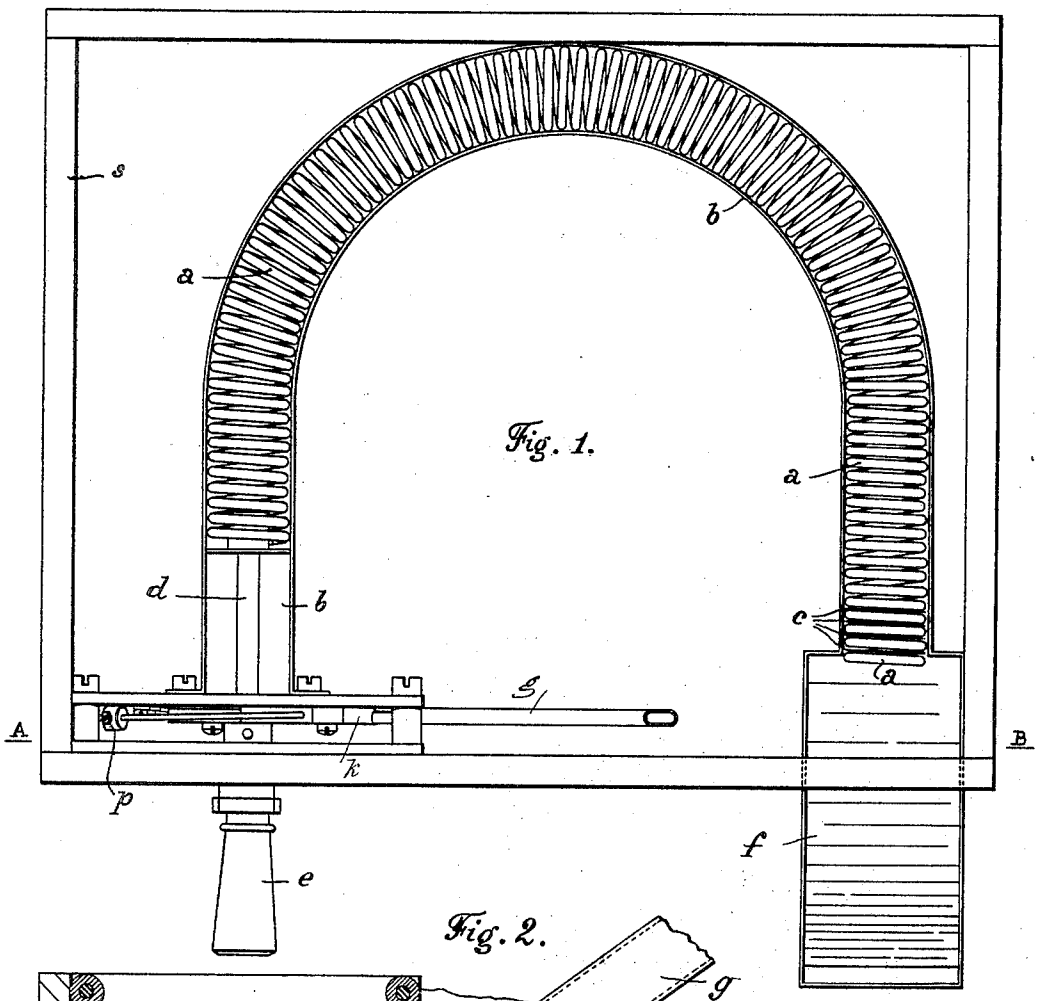
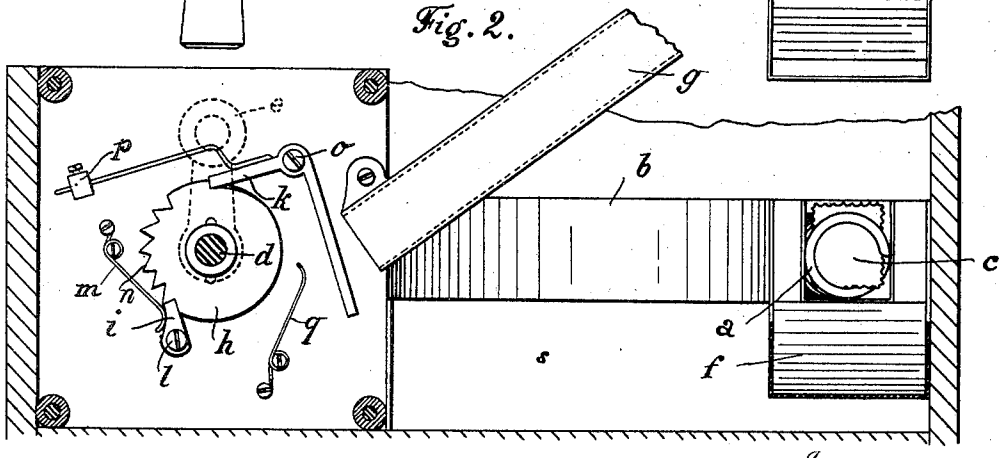


Fig. 1.

Fig. 2.



Witnesses
Chas. H. Smith
J. Stail

Inventor
Charles Perdrisat
per L. W. Serrell & Son
attys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES PERDRISAT, OF TERRITET, SWITZERLAND.

AUTOMATIC DELIVERY APPARATUS.

SPECIFICATION forming part of Letters Patent No. 690,179, dated December 31, 1901.

Application filed December 13, 1900. Serial No. 39,602. (No model.)

To all whom it may concern:

Be it known that I, CHARLES PERDRISAT, a citizen of Switzerland, residing at Territet, in the canton of Vaud, Republic of Switzerland, have invented a new and useful Improvement in Automatic Delivery Apparatus, of which the following is a specification.

The present invention consists of an automatic distributer intended to deliver after the introduction of a predetermined coin one or more postage-stamps, photographs, or pieces of chocolate, &c., each piece of such goods being delivered separately or in separate series.

The delivery device consists of a helical spring between the convolutions of which the articles to be delivered are placed, and said helical spring occupies a position wherein its axis is in a horizontal plane, and the spring is within a box or receptacle corresponding in cross-section to about the shape of the articles between the convolutions of the spring, so as to receive said articles and prevent them turning when the spring is rotated. The spring is without axial support, and one end of said spring is connected to a shaft provided with a handle, and at each revolution of the spring one article at a time is delivered from the end convolution of said spring. A suitable hand-actuated mechanism is employed for turning said shaft and spring, and this mechanism is advantageously arranged for operation only after the insertion of a coin. This mechanism is described herein, but is not claimed.

In the drawings, Figure 1 is a plan view of said distributer, the top of its casing being removed, so that the mechanism may be seen. Fig. 2 is a front elevation and section on the line AB of Fig. 1, showing a suitable driving and stopping mechanism in the stopped position.

a is a helical spring preferably placed in a U-shaped channel or casing *b*, the inner section of which corresponds to the size of the postage-stamps or other articles to be delivered. One of the ends of the spring *a* is fixed to a shaft *d*, provided with a handle *e*. The other end of said spring has its last convolution placed in line with the corresponding end of the channel or casing *b* above a slide *f*, intended to lead out of the apparatus the stamps or other articles which are delivered by the same. Said casing *b* may or may not be closed at the top by a removable cover, but when open at this part throughout its entire length is completely accessible, so as to allow for the easy insertion of the stamps or other articles between the convolutions of the helical spring when loading the same.

The shaft *d* is combined with a stopping mechanism which allows said shaft to be rotated only after a predetermined coin has been introduced into the channel *g* and then allows it to be rotated only one complete revolution in the desired direction, so that the helical spring may deliver the one stamp contained in its last convolution.

s is the box or casing containing the whole distributing device. It is provided on its front with a suitable opening for the passage of the slide *f* and with a hole for the shaft *d*. The box or casing may be made entirely or partially of transparent material, so that every one may observe the working of the device contained in the same.

The spring *a* will be made of a larger or smaller diameter, according to the size of the goods which are to be delivered by the same and according to the form which is desired for the outer box or casing. The channel *b*, containing said spring, may be straight, bent at right angles, or S-shaped, &c. Whichever may be the form of the same the axial rotation of the spring will cause the displacing of the goods lodged in its convolutions and the delivering of those goods contained in the last of the said convolutions into the slide *f*.

In the drawings I have illustrated a suitable hand-actuated, coin-released, and self-locking mechanism. This mechanism comprises a cam *h*, secured to the shaft *d*. The shaft is locked by one arm of a pivoted lever *k* engaging a notch of the cam *h* and by a pawl *i*, actuated by a spring *m*, engaging one of the notches *n* in the cam. The lever *k* is pivoted at *o*, and one arm is normally held in engagement with the cam *h* by the counterweight *p*. The other arm of the lever *k* is adapted to come adjacent to the end of the coin-channel *g*.

In the operation of this mechanism a coin of predetermined weight will swing the lever *k* so as to release the cam *h*, while a coin too

light will not move it and a coin too heavy will swing it and pass by and allow it to return. Upon a complete revolution of the cam by the handle the pawl *i* engages a notch *n* and the lever *k* engages the cam at its predetermined place. It is also evident that the said mechanism may be regulated to be operated by a coin of any given weight. This releasing and stopping mechanism may, however, be of any well-known construction, the form shown constituting no necessary part of my invention. The mechanism may be arranged to deliver an article at a time or several articles in succession.

I claim as my invention—

The combination in an automatic delivery device, of a helical spring without axial support and occupying a horizontal position and between the convolutions of which the articles to be delivered are placed, a case or receptacle for containing said spring and having three connected sides and adapted to be open between its edges for its entire length, and said case being in cross-section about the shape of the articles between the convolutions of the spring so as to prevent the articles turning when the spring is rotated, a shaft connected to one end of said spring and a handle for turning said shaft and spring, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

CHARLES PERDRISAT.

Witnesses:
ELMER GILMER,
G. IMER.