(No Model.) 2 Sheets—Sheet 1.

F. S. KINNEY & W. H. BUTLER.

APPARATUS FOR DELIVERING PACKAGES OF CIGARETTES.

No. 364,261. Patented June 7, 1887.

Fig. 1.

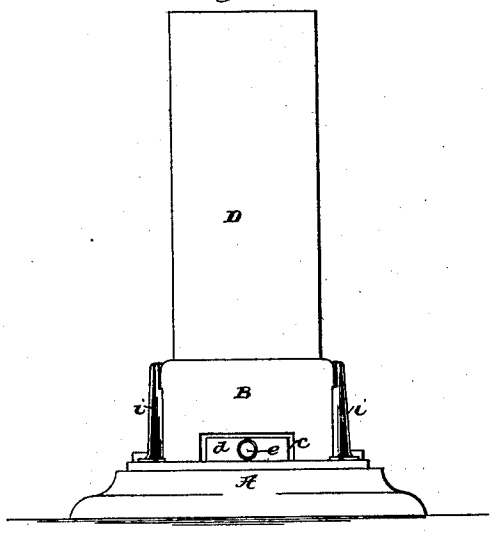
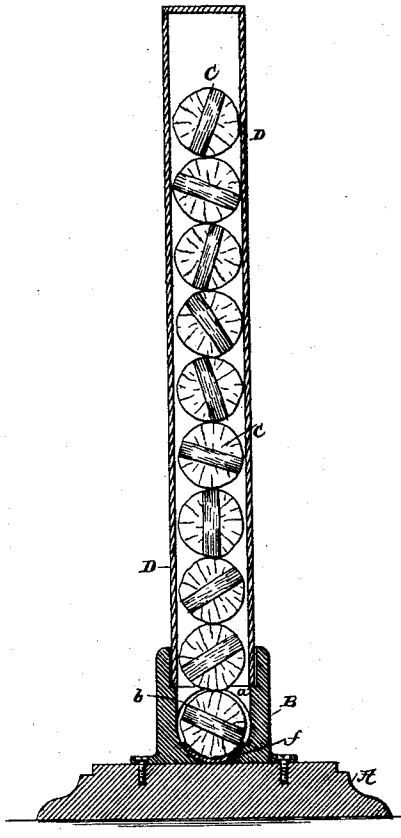


Fig 6.



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(No Model.) 2 Sheets—Sheet 2.

F. S. KINNEY & W. H. BUTLER.

APPARATUS FOR DELIVERING PACKAGES OF CIGARETTES.

No. 364,261. Patented June 7, 1887.

Fig. 2.

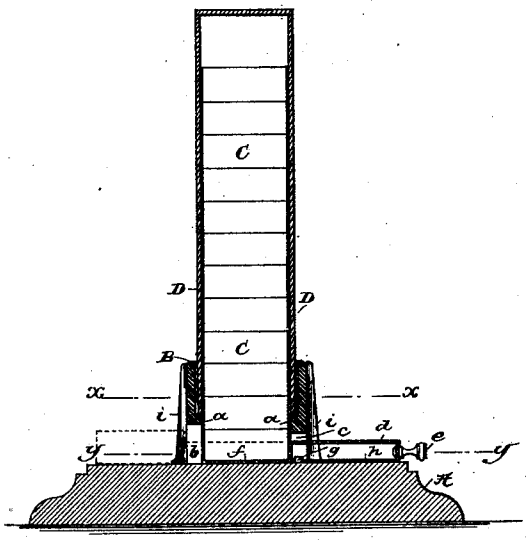


Fig. 3.

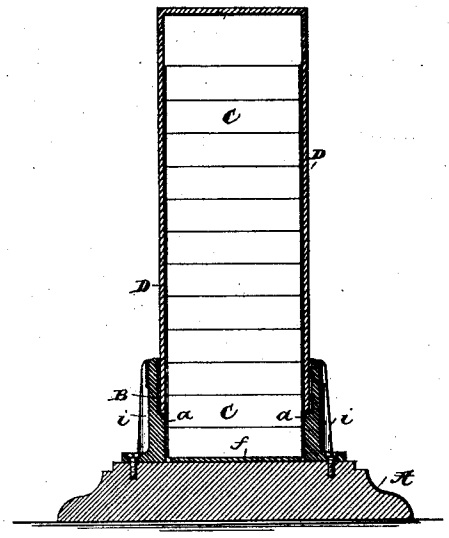


Fig. 4.

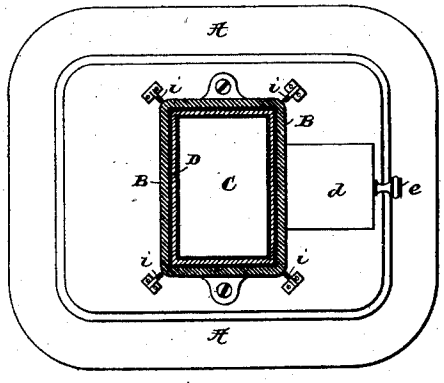
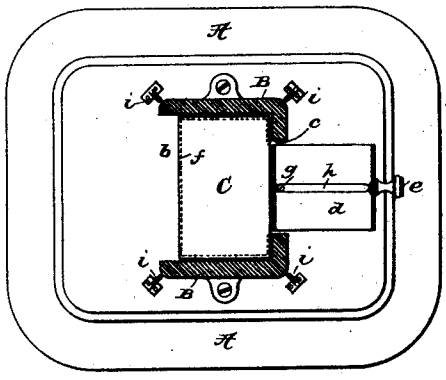


Fig. 5.



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UNITED STATES PATENT OFFICE.

FRANCIS S. KINNEY, OF PEQUANAC, NEW JERSEY, AND WILLIAM H. BUTLER, OF BROOKLYN, NEW YORK, ASSIGNORS TO THE KINNEY TOBACCO COMPANY, OF NEW YORK.

APPARATUS FOR DELIVERING PACKAGES OF CIGARETTES.

SPECIFICATION forming part of Letters Patent No. 364,261, dated June 7, 1887.

Application filed December 1, 1886. Serial No. 220,345. (No model.)

To all whom it may concern:

Be it known that we, FRANCIS S. KINNEY and WILLIAM H. BUTLER, citizens of the United States, residing at Pequanac, county of Morris, State of New Jersey, and Brooklyn, county of Kings, State of New York, respectively, have invented certain new and useful Improvements in Apparatus for Delivering Packages of Cigarettes, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to a stand which is especially designed for use in retail stores to support a box or case containing a number of small boxes or packages of cigarettes, in such manner that the said small boxes or packages can be removed from the box or case in which they are contained one by one as they are sold without the necessity of opening the box or handling any of the packages.

A full understanding of the invention can be best given by an illustration and a detailed description of the construction and manner of using the stand. All preliminary description will therefore be omitted and a full description given, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the stand, showing a box or case containing a number of packages of cigarettes supported thereon. Figs. 2 and 3 are centrally vertical sections of the stand and case, taken at right angles to each other. Figs. 4 and 5 are horizontal sections taken respectively on the lines *x x* and *y y* of Figs. 2 and 3; and Fig. 6 is a view similar to Fig. 3, illustrating a slight modification in the stand adapting it for use in connection with round packages of cigarettes.

Referring to Figs. 1 to 5, it is to be understood that A represents a base, preferably made of metal of sufficient size and weight to prevent it and the case of cigarette-packages which it supports from being readily overturned. Upon the top of this base is located a small casing, B, forming an open-topped chamber or receptacle, which is of sufficient length and width and of somewhat more than sufficient depth to receive one of the packages of cigarettes. The sides of the casing B are recessed at their upper edges, so as to increase the size of the chamber and form shoulders *a*, and one side of the casing is provided with an opening, *b*, of the proper size and shape to permit of the passage through it of one of the packages of cigarettes.

The casing B is provided upon the side opposite to the opening *b* with an opening, *c*, through which passes a plunger or discharger, *d*, which is provided with a suitable knob or handle, *e*, by which it can be conveniently operated.

The discharger *d* should be made of a height or thickness vertically equal to about one-half the thickness of one of the packages of cigarettes, and will preferably be provided with a forwardly-extending plate, *f*, which rests upon the bottom of the chamber and serves to guide and steady the discharger in its movements. The discharger may be limited in its movements in and out of the casing B by means of a stud, *g*, fixed to the base A, and projecting into a slot, *h*, formed in the discharger, or in any other suitable manner.

The packages, C, of cigarettes will be put up in cases D, which are of just sufficient size in cross-section to receive one row or tier of the packages, but are of any desired length.

When the packages of cigarettes contained in a case are to be put on sale, one end of the case will be be cut or torn off, and the open end of the case will be inserted into the top of the casing B, so that it will rest upon the shoulders *a* and be held in a vertical position upon the stand, as shown. When the case is supported in this position, the packages C will fall by their own weight, so that the lower of the series will pass down into the casing B and rest upon the plate *f* in front of the discharger *d*, as shown in Figs. 2 and 3. When a customer calls for a package of cigarettes, all that is necessary is to push the discharger inward, so that it will come into contact with the side of the package and push it outward through the opening *b*, as shown by dotted lines in Fig. 2, so that it can be taken by the customer. As the package is thus ejected the remaining packages will fall onto and be sup-

ported by the discharger, and as soon as the discharger is restored to its original position the whole lot of packages will again fall, so that the bottom package will take the proper position to be discharged at the next movement of the discharger, and so the operation will be repeated until all of the packages contained in the case D are discharged. The empty case will then be removed from the stand and a full one placed in its stead.

If the cigarettes are put up in round packages, the stand will preferably be of the form shown in Fig. 6—that is to say, the opening *b*, through which the packages are discharged, will be located at the end instead of at the side of the casing B, so that the packages will be discharged endwise instead of sidewise, and the bottom of the chamber formed by the casing B will preferably be made concave, and the plate *f*, if the discharger is provided with the plate, will be curved to conform to the bottom of the chamber. The operation will be the same as already described.

By means of the apparatus which has been described the packages of cigarettes can be removed from the case one by one as they are required, while the case remains at all times in a closed or practically closed condition, thus preventing the packages from becoming soiled by exposure to dust, &c., and also in a measure preventing the cigarettes from losing their flavor by exposure to the air. The apparatus also affords a convenient and easy means for removing the packages from the case as they are required, and this effects a saving of time and labor and avoids annoyance. The apparatus also forms an attractive and novel article of furniture for a counter or show-case, and thus affords an effective means for displaying any advertising matter which may be placed upon the sides of the cases D.

In addition to the casing B, the base A may be provided at the corners of the casing with vertical standards *i*, which are located a short distance from the casing, and which, together with the casing, form card-holders, in which advertising or show cards can be displayed.

Although the stand which has been described is especially designed and adapted for use in connection with cases containing packages of cigarettes, it may of course be used in connection with cases containing other articles which it is desired to deliver in the same manner. In the case of cigarette-packages and most other articles it will usually be most convenient and desirable to place the box or case in which the packages or other articles are put up on the stand, as illustrated in the present case; but in some cases it may not be desirable to do this, and in some cases the shape or size of the original box or case may not permit of its being placed on the stand. In such cases the stand may be provided with a hopper to receive the packages or other articles, and such hopper may be formed by extending upward the walls of the casing B, or it may be made to be inserted into the upper end of the casing, the same as the case or box D.

What we claim is—

1. An apparatus for delivering packages of cigarettes and other similar articles, consisting of the base A, provided with the casing B, having the opening *b* in one of its sides, and provided with the shoulder *a*, to receive and support the removable case D, and the reciprocating discharger *d*, arranged to abut against the bottom package of the series and move with the package across the casing, thereby fully discharging the package, said discharger being also constructed to afford support for the next package above the one discharged until it is retracted, all substantially as described.

2. In an apparatus for delivering packages of cigarettes and other similar articles, the combination, with the base A, provided with the casing B, having the opening *b* in one of its sides, of the discharger *d*, arranged to reciprocate across the bottom of the casing B, and the removable case D, fitting into the upper end of the casing B, substantially as described.

3. In an apparatus for delivering packages of cigarettes and other similar articles, the combination, with the base A, provided with the casing B, having the opening *b* in one of its sides, of the discharger *d*, arranged to reciprocate across the bottom of the casing B, the removable case D, fitting into the upper end of the casing B, and the card-holders *i*, arranged around the casing B, substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

FRANCIS S. KINNEY.
W. H. BUTLER.

Witnesses:
EDWARD T. SMITH,
ROBT. F. WISEMAN.