CHARLES H. AYARS, OF SALEM, NEW JERSEY.

CANN-DISTRIBUTING DEVICE.

1,852,718.


To all whom it may concern:

Be it known that I, CHARLES H. AYARS, a citizen of the United States, residing at Salem, in the county of Salem and State of New Jersey, have invented certain new and useful Improvements in Can-Distributing Devices, of which the following is a specification.

One object of my invention is to provide an improved device which can be located adjacent a can filling machine so as to receive the filled cans, which usually are delivered at a high rate of speed, and distribute said cans alternately upon two disks from where they can be fed to the usual closing and capping machines.

Another object is to so construct the device of my invention that it will not injure the cans or spill the contents thereof during the operation.

Another object is to make the device of an extremely simple and durable construction.

These objects, and other advantageous ends which will be described hereinafter, I attain in the following manner, reference being had to the accompanying drawings in which—

Figure 1 is a top plan view showing my invention,

Fig. 2 is a front elevation of Fig. 1,

Fig. 3 is an end elevation looking in the direction of the arrow x of Fig. 1,

Fig. 4 is an end elevation looking in the direction of the arrow y of Fig. 1,

Fig. 5 is a fragmentary sectional elevation taken on the line 5—5 of Fig. 1 and drawn on a larger scale,

Fig. 6 is a view of similar nature to Fig. 5 showing the section taken through an extension of a rotatable plate which forms a part of my invention, and

Fig. 7 is a fragmentary perspective view showing a rotatable plate which forms a part of my invention.

Referring to the drawings, 7 represents a member, such for example as a member for delivering the cans 8 from a filling machine.

My invention consists of a fixed table 9 which is illustrated in the form of a circular plate and made of comparatively thin sheet metal. A plate 10 is rotatably mounted above the plane of the top of the table 9 and this top plate 10 can be rotated by means of a shaft 11 which passes downwardly through the table 9 and the bed or supporting structure 12 as shown in Fig. 2. The plate 10 actually forms a wheel and has notches 13 spaced apart and extending inwardly from its outer edge 14.

By thus providing the notches 13, tongues or extensions 15 are produced at the outer portion of the plate 10, as is clearly shown in Fig. 1. Upwardly extending ribs 16 are provided on both sides of each extension 15 and said extensions are positioned directly over the table 9.

A deflecting bar 17 is mounted on the top of the table 9 and below the plate 10. This deflecting bar extends at an angle substantially tangent to a rotatable delivery disk 18. A second deflecting bar 19 is positioned above the ribs 16 of the plate 10 and extends substantially tangent to an oppositely disposed rotatable delivery disk 20. A plate 21 which is positioned substantially at the same level with the top surfaces of the extensions 15 serves to feed the cans 8 alternately upon the extensions 15 and on the table 9 within the notches 13.

During the rotation of the plate or wheel 10, the cans which are within the notches 13 and resting on the table 9 will be pushed around on the table by the adjacent ribs 16. When these latter mentioned cans approach the delivery disk 18 they will engage the deflecting bar 17, and due to the continued pushing of the ribs 16 said latter cans will be gradually pushed off the table 9 and will finally slide upon the delivery disk 18 from where they can be fed either by hand or by any suitable mechanism (not illustrated) to a capping or closing machine. The cans which rest upon the extensions 15 will continue to take the movement of the plate 10 until they engage the deflecting bar 19. They will then, during a continued movement of the plate 10, be pushed upon the delivery disk 20 and can be fed to another capping or closing machine.

While I have described my invention as taking a particular form, it will be understood that the various parts of my invention may be changed without departing from the spirit thereof, and hence I do not limit myself to the precise construction set forth, but consider that I am at liberty to make such changes and alterations as fairly come within the scope of the appended claims.
Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A can distributing device including a table; a member rotatable relatively to said table and having notches alternating with extensions; means for feeding cans into the notches and onto said extensions; delivery members; and means for deflecting said cans from said notches and extensions respectively upon said delivery members; substantially as described.

2. A can distributing device including a table; a member mounted above and rotatable relatively to said table and having notches in its outer edge alternating with extensions; delivery members; means for feeding cans into the notches and onto said extensions; a deflecting member interposed between said table and said first mentioned member and adapted to deflect the cans which are within said notches from said table to one of said delivery members; and deflecting means positioned above said first mentioned member and adapted to deflect the cans which are on said extensions upon another of said delivery members; substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES H. AYARS.

Witnesses:

Anna Renton,
Chas. E. Potts.