April 8, 1930. W. B. C. WASHBURN 1,753,957

DISTRIBUTING DEVICE

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Fig. 1

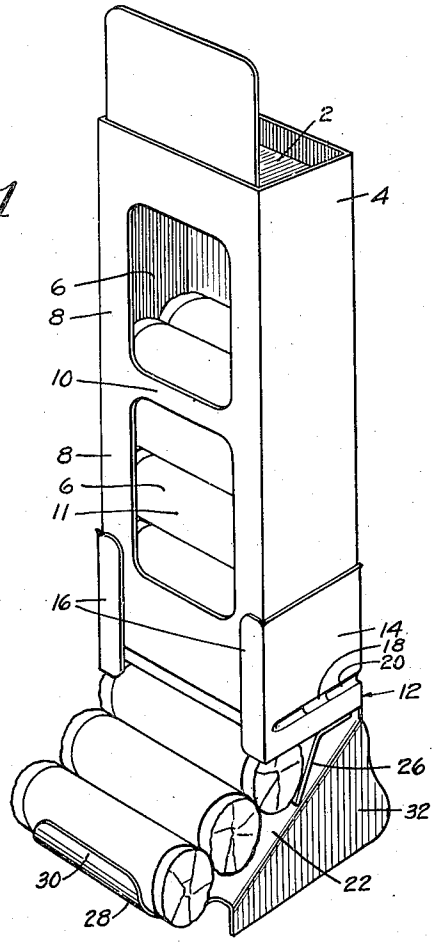


Fig. 2

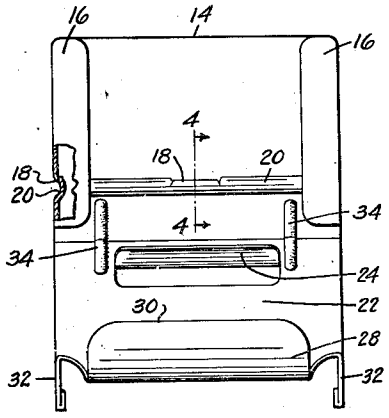


Fig. 4

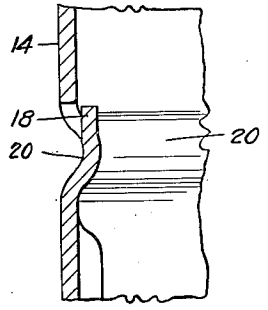
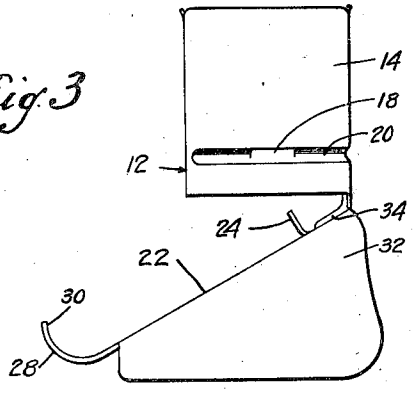


Fig. 3



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DISTRIBUTING DEVICE

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Fig. 5

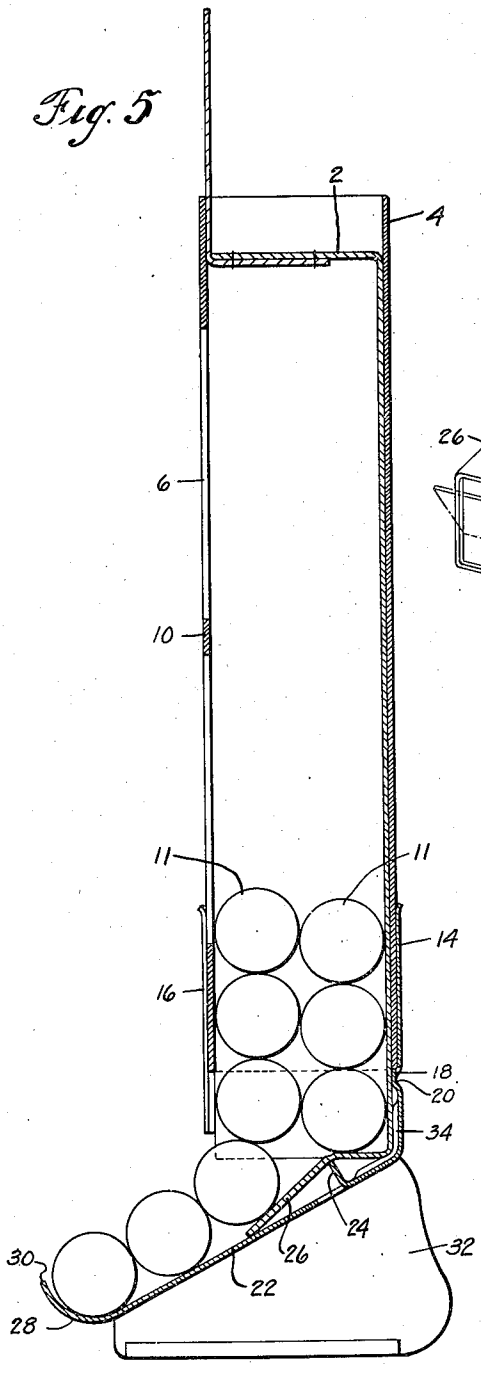


Fig. 7

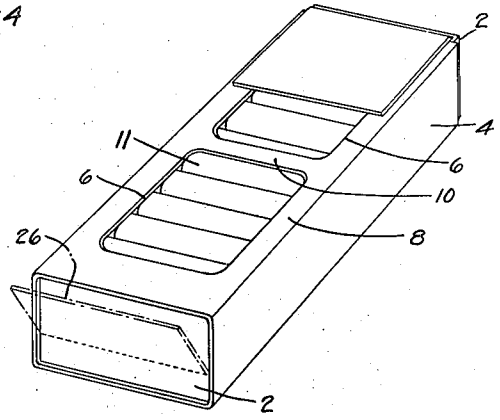
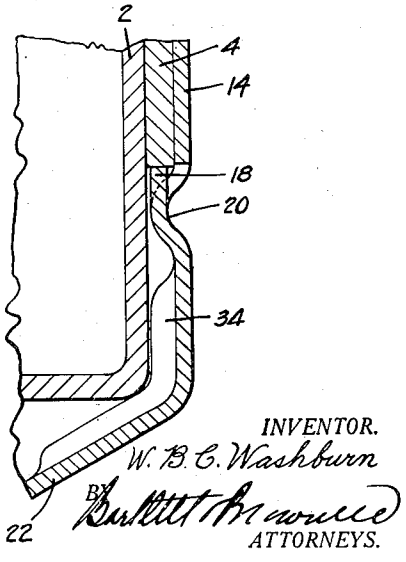


Fig. 6



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UNITED STATES PATENT OFFICE

WALTER BAILEY CHAFFIN WASHBURN, OF CANAJOHARIE, NEW YORK, ASSIGNOR TO BEECH-NUT PACKING COMPANY, OF CANAJOHARIE, NEW YORK, A CORPORATION OF NEW YORK

DISTRIBUTING DEVICE

Application filed February 1, 1928. Serial No. 251,204.

My invention relates to distributing devices and has for its object to provide a new and useful device for holding and delivering articles to be distributed so that they can be removed one at a time as desired. It further has for its object to provide a holder which will support the end of a box along a line adjacent to its center. It further has for its object to provide a holder which will support the box body and its cover in definitely spaced relations. It further has for its objects to produce such a holder having all its parts integral and made from a single piece of sheet metal.

The following is a description of an embodiment of my invention, reference being had to the accompanying drawings, in which,

Fig. 1 is a perspective view of my improved holder in conjunction with a box of articles to be distributed;

Fig. 2 is a front elevation of the holder itself, part being broken away;

Fig. 3 is a side elevation of the holder;

Fig. 4 is a detail sectional view of a portion of one wall of the holder on the line 4—4, Fig. 2;

Fig. 5 is a vertical section of the holder and its contents;

Fig. 6 shows a section on the line 4—4, Fig. 2, together with a section of a portion of the box and cover; and

Fig. 7 is a perspective view of a box containing articles adapted to be inserted in my device.

Referring more particularly to the drawings, 2 is a box having a sliding cover 4 surrounding the same and provided with windows 6 surrounded by flanges 8 connected together by a cross tie member 10. This box contains two layers of round articles 11 to be distributed, which, when the box is in vertical position, form two columns of articles. 12 is a holder for this box and cover, the same consisting of a vertical chute portion 14 having on the front edges of its side walls flanges 16 behind which the box slides. The front and rear walls of this chute are provided with upwardly projecting teeth-like members 18 spaced away from the bottom of the chute and engaging the cover of the box so as to hold it in spaced relation to the end of the box. In line with these teeth members is an inwardly extending bead 20 which stiffens the sides of the chute and their connections with the rear wall. Integral with the rear wall of the chute and spaced away from its side walls and the lower ends of the flanges 16, is a downwardly and forwardly inclined portion 22 having a struck out tongue 24 which extends upwardly and engages the end of the box along a line in its central portion. When the box is inserted in the chute, the front portion 26 of its lower end is broken away from the sides of the box and bent downwardly, as shown in Fig. 1, the rear portion being supported in horizontal position by its connection with the rear and side walls of the box and the tongue 24.

The downwardly inclined portion 22 terminates in an upwardly turned portion 28 forming an abutment stop 30 for the articles to be distributed. Integrally connected to the portion 22 are two downwardly turned supports 32 forming legs on which the device stands. In order to stiffen the connection between the inclined portion 22 and the rear wall of the chute, vertical corrugations 34 are formed, extending to each side of said connection.

In using this device, the front portion of the end of the box is separated from the sides and bent outwardly as shown in Figs. 1 and 5. The box and cover are then inserted in the chute, the box being forced down until it engages the upper part of the inclined portion 22 and the tongue 24. During this movement the teeth 18 engage the cover, restraining its movement so that it is spaced away from the end of the box. The packages, such as rolls of candy, being arranged in two columns within the box, some of those in the first column roll down bent down portions of the box end and the incline 22 until blocked by the abutment 30. As one of the exposed rolls is removed, the front column moves down, the rear column being supported by the horizontal rear portion of the end of the box. As the front column falls, the top article on the rear column rolls forward so as to form the top article of the front column, so that

the articles feed out automatically until the lowermost article of the rear column is reached.

By means of this device the box body and cover in which the articles are contained form an extension of the chute, so that the chute can be made relatively short, and since the device is formed by simply blanking and bending a single piece of metal, the device is inexpensive to manufacture.

As will be evident to those skilled in the art, my invention permits of various modifications without departing from the spirit thereof or the scope of the appended claims.

What I claim is:

1. A sheet metal distributing device, comprising a holder composed of a vertical chute, a forwardly and downwardly inclined portion extending from the rear wall of said chute and spaced away from the side walls of said chute and terminating in an upwardly projecting abutment, and legs downwardly extending from the sides of said inclined portion, all of said parts being integral.

2. A sheet metal distributing device, comprising a holder composed of a vertical chute, a forwardly and downwardly inclined portion extending from the rear wall of said chute and spaced away from the side walls of said chute and terminating in an upwardly projecting abutment, and legs downwardly extending from the sides of said inclined portion, said chute having inwardly projecting tooth means adjacent to its lower edge.

3. A sheet metal distributing device, comprising a holder composed of a vertical chute, a forwardly and downwardly inclined portion extending from the rear wall of said chute and spaced away from the side walls of said chute and terminating in an upwardly projecting abutment, and legs downwardly extending from the sides of said inclined portion, said inclined portion having a struck out upwardly extending projection below the central portion of said chute.

4. A sheet metal distributing device, comprising a holder composed of a vertical chute, a forwardly and downwardly inclined portion extending from the rear wall of said chute and spaced away from the side walls of said chute and terminating in an upwardly projecting abutment, and legs downwardly extending from the sides of said inclined portion, all of said parts being integral, said chute having inwardly projecting tooth means adjacent to its lower edge, said inclined portion having a struck out upwardly extending projection below the central portion of said chute.

5. A distributing device consisting of a metal holder comprising a vertical chute having inwardly projecting tooth-like means in its lower portion spaced away from the bottom of said chute, and a forwardly and downwardly inclined portion connected to the rear wall of said chute and terminating at its lower end in an upwardly projecting abutment, said metal holder adapted to support a box body and a telescoping cover therefor, having their lower portions within said chute and their upper portions projecting a considerable distance above said chute, with the rear portion of the lower end of said box body engaging the upper edge of said inclined portion in a plane adjacent to the lower end of said chute and its front edge resting on said inclined portion with the telescoping cover engaged and supported by said tooth-like means in spaced relation to the lower end of said box body.

In testimony whereof, I have signed my name to this specification January 28, 1928.

WALTER BAILEY CHAFFIN WASHBURN.