

March 19, 1929.

T. O. LINDEMAN

1,706,304

ARTICLE CONTAINING AND DISPENSING CASE

Filed Nov. 19, 1926

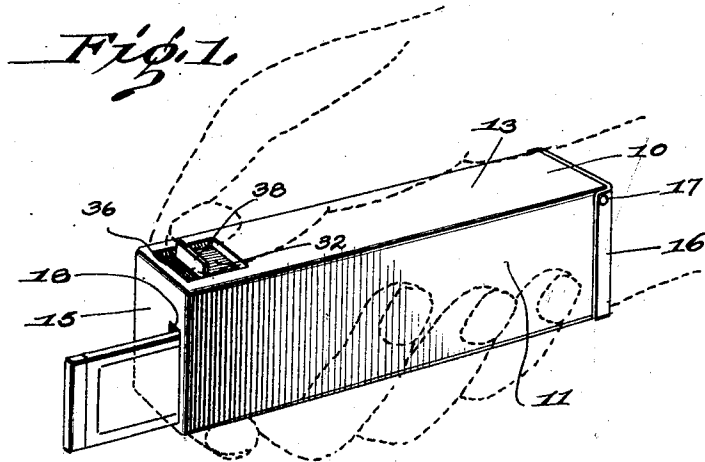
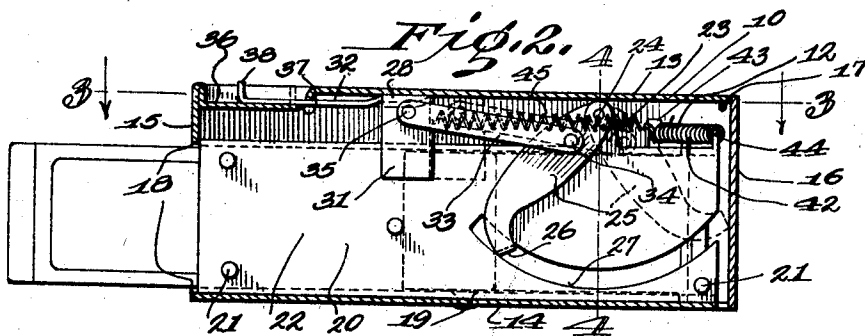
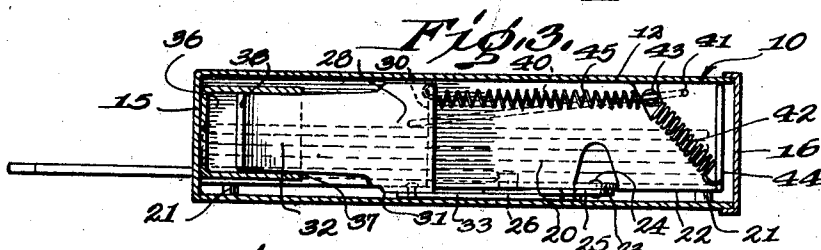
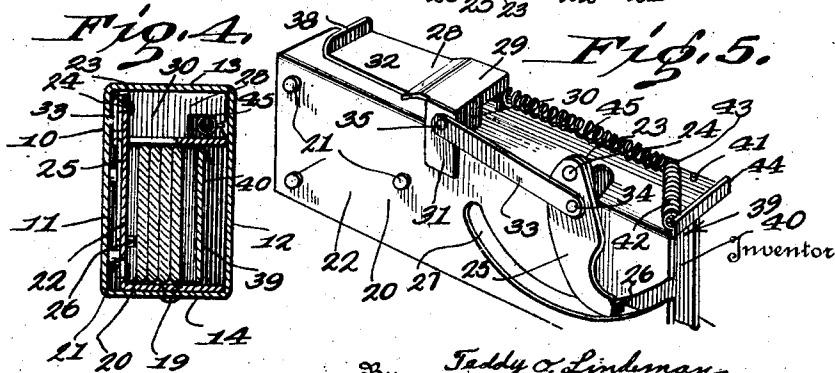


*Fig. 5.*

Attorney

## UNITED STATES PATENT OFFICE.

TEDDY O. LINDEMAN, OF WINONA, MICHIGAN; OTTO C. LINDEMAN, ADMINISTRATOR  
OF SAID TEDDY O. LINDEMAN, DECEASED.

## ARTICLE CONTAINING AND DISPENSING CASE.

Application filed November 19, 1926. Serial No. 149,506.

My invention relates to an article contain-  
ing and dispensing case arranged so as to  
dispense one of the articles contained there-  
in on each successive operation of the device,  
and aims to provide a novel and improved  
device of this character which is more espe-  
cially designed for containing and dispens-  
ing sticks of gum or like articles.

With this principal object in view the in-  
vention contemplates the provision of a case  
having a thumb or finger engaging knob  
projecting therefrom adapted to be moved  
when the case is arranged in the hand of  
the user for operating certain mechanism to  
push a single article partly out of the case  
so that it may be grasped for removing the  
same.

By the particular construction and ar-  
rangement of parts, as hereinafter specifi-  
cally described and claimed, I provide a de-  
vice of the above indicated character which  
is simple and substantial in construction,  
can be cheaply manufactured, and will be  
thoroughly efficient and practical in use.

The invention is illustrated in the accom-  
panying drawings, wherein:

Figure 1 is a perspective view of my im-  
proved case, showing in dotted lines the  
same engaged in a hand of a user.

Figure 2 is a vertical longitudinal section  
taken through the case at one side thereof.

Figure 3 is a horizontal longitudinal sec-  
tion taken on line 3—3 of Figure 2.

Figure 4 is a cross vertical section taken  
on line 4—4 of Figure 2, and

Figure 5 is a perspective view of portions  
of the device removed from the case.

Referring to the drawings the numeral  
10 designates a rectangular casing, having  
side walls 11 and 12, top wall 13, bottom  
wall 14, and an end wall 15, the other end  
being closed by a closure plate 16 hingedly  
connected by pintle 17 to the upper portion  
of the case. The closed end 15 of the case  
is provided with an elongated opening 18  
through which the articles are adapted to  
be dispensed.

Arranged within the case is an elongated  
U-shaped frame 20, secured to the bottom of  
the case by means of a rivet 19, the bight  
portion 22 of said frame being spaced from  
the wall 11 of the case by means of small  
studs 21 formed on said bight portion, while  
the outer ends of the upper and lower mem-

bers of said U-shaped frame engage the  
opposite side wall 12 of the case. The  
height of this frame is less than the height  
of the case so that the upper member or  
plate thereof is spaced a slight distance from  
the top wall 13 of the case, the object of  
which will be set forth as the description  
proceeds.

Cut from the upper member or plate of  
the elongated U-shaped frame is an ear 23  
which extends upwardly and parallel with  
the bight portion 22, said ear providing for  
pivotally connecting thereto, at 24, an  
operating arm 25 arranged for swinging  
movement between the bight portion of the  
frame and the wall 11 of the casing, and on  
the lower end of this arm is a bent portion  
or pusher 26 working in an arcuate slot 27  
in the bight portion 22 of the frame and  
protruding a sufficient distance within said  
frame to engage an article contained therein.  
Slidable on the upper portion of the U-  
shaped frame is a member 28 preferably  
constructed of sheet metal and comprising a  
body portion 29 having a downwardly ex-  
tending flange 30 riding on the upper por-  
tion of said frame, with a depending flange  
31 at one side which slidably engages the  
outer surface of the bight portion 22 of the  
frame, and a forwardly projecting member  
32 projecting into a depression in the top  
of the case for operating the slide as herein-  
after explained. The member or slide 28 is  
connected to the operating arm 25 by means  
of a link 33, pivotally connected, at 34, to  
the arm and pivotally connected, at 35, to  
the depending flange 31 of the slide. It can  
be seen that when the member 28 is slid  
within the casing it will swing the arm 25  
on its pivot so that the pusher 26 working  
through the arcuate slot 27 will engage and  
push one of the articles out of the slot 18.

The upper wall 13 of the casing 10 is de-  
pressed adjacent the closed end 15 of the  
casing, as at 36, the rear wall of said depres-  
sion having an opening 37 through which  
extends the forwardly projecting member 32  
of the slide, said member being provided  
with a finger or thumb engaging portion or  
lip 38 at its free end so as to be easily en-  
gaged for operating the slide. It is to be  
noted that the opening through which the  
member 32 of the slide 28 extends forms a  
guide for said member, and that the lip 38

slides in the depression 36 below the top of the casing. The U-shaped frame 20 is adapted to receive the articles to be dispensed and is provided with feeding mechanism 39 for forcing the articles over towards the bight portion 22 of said frame as they are dispensed, said feeding mechanism consisting of a plate 40 arranged between the top and bottom of the U-shaped frame and pivotally connected adjacent the rear end of said frame, as at 41, so that the free end of said plate will engage against the center of the article next to the plate. The plate is held in contact with the articles for feeding the same by means of a coil spring 42, connected to a small lug 43 extending upwardly from the plate and to an upturned flange 44 at the rear end of the U-shaped frame. It can be seen that the coil spring 42 will hold the plate in engagement with the contiguous article so that all of the articles will be yieldably forced towards the bight portion 22 of the U-shaped frame as they are dispensed. Also attached to the lug 43 of the plate 40 is one end of a coil spring 45 the other end of which is attached to the flange 30 of the slide 28 for returning the same to initial position after being operated.

In order to fill the case with sticks of gum or like articles, the closure plate 16 is swung upon its pivot 17 and the articles forced between the portion 22 of the U-shaped frame 20 and the yieldable feeding plate 40, so as to be contained within the U-shaped frame for dispensing them successively on operation of the dispensing mechanism, the hinged closure plate being returned to its position for closing the case. When it is desired to dispense gum from the case, the operator holds the case in one hand so that the thumb rests in the depression 36 in the top wall 13 of the case against the upturned end or lip 38 of the operating member of the slide, and by pressure on this lip said slide will be moved to swing the arm 25 forwardly against tension of the spring 45 so that the pusher at the lower end thereof will engage the stick of gum adjacent the portion 22 of the U-shaped frame 20 and force it partly through the opening 18 in the end wall 15 of the casing. The projecting portion of the stick of gum may then be easily and conveniently grasped for withdrawing the same from the case. When the stick of gum has been withdrawn the plate 40 will force the other sticks of gum within the frame 20 towards the wall 22 so that upon operation of the slide again another stick of gum will be dispensed. It is to be noted that the lateral extension or pusher 26 on the operating arm 25 engages the rear ends of the sticks of gum in forcing them through the opening 18 in the end wall 15 of the case and that said pusher projects through the bight portion of the U-shaped frame a dis-

tance only for engaging one stick of gum at a time, so that upon each operation of the device one stick of gum will be dispensed. It is also to be noted that the lugs 21 carried by the side wall 22 of the U-shaped frame space said side wall from the wall 11 of the case so that the operating arm 25, link 33, and depending flange 31 of the slide 28 may operate freely between said walls.

In the present instance the parts of the device are so constructed and arranged that by removing the rivet 19 which extends through the bottom wall 14 of the casing and the lower side portion of the U-shaped frame the said frame and structure supported thereby may be slid rearwardly through the rear or open end of the case. When removing the operating structure from the case, the outer end of the member 32 of the slide is forced downwardly at the opening 37 so that the upturned lip 38 will not interfere with rearward sliding movement of the U-shaped frame and structure carried thereby in the case. It is also to be noted that the opening 18 through which the gum is dispensed is of a size corresponding with the sticks of gum so that only one article may pass therethrough at a time, so as to prevent more than one article being dispensed by frictional contact of one with another, the article next the one being dispensed engaging the front wall of the casing at one side of said delivery slot.

I claim:

1. An article dispensing device comprising a casing having a slot in its forward end through which the article is delivered, a U-shaped frame mounted within the casing having the bight portion thereof spaced from the adjoining side wall of said casing and its upper member below the top of the casing, the bight portion of the frame having an arcuate slot therein, a slide mounted on the frame and having an operating member projecting through the top of the casing, a spring actuating said slide in one direction, an arm pivoted to the rear portion of the U-shaped frame and having a pusher extending through the arcuate slot, and a link connecting the slide to the arm; together with means for pressing the articles against the bight portion of the U-shaped frame.

2. An article dispensing device comprising a casing having a slot in its forward end through which the article is delivered, a U-shaped frame within the casing having the bight portion thereof spaced from the adjoining side wall of said casing and its upper member below the top of the casing, the bight portion of the frame having an arcuate slot therein, a slide mounted on the frame and having an operating member projecting through the top of the casing, a spring actuating said slide in one direction,

an arm pivoted to the rear portion of the U-shaped frame and having a pusher extending through the arcuate slot, and a link connecting the slide to the arm; together with  
5 a plate pivoted at the open end of the U-shaped frame with the free end of the plate bearing against the center of the articles to force them against the bight portion of said frame, and a spring for forcing the  
10 plate against the articles.

3. An article dispensing device comprising a casing having a slot in its forward end through which the article is delivered and open at its rear end, a U-shaped frame in  
15 the casing with the bight portion thereof on a line with one side of the slot and having an arcuate slot therein, an arm pivoted to the frame and having a pusher working through the arcuate slot to eject an article  
20 through the slot in the forward end of the casing, a slide mounted on the frame and having an operating member projecting through the casing, and a link connecting the slide to the arm for operating the lat-  
25 ter; together with means for feeding the articles against the bight portion of the U-shaped frame comprising a plate pivoted to the rear portion of the U-shaped frame with the free end thereof bearing against the  
30 center portion of the article, and a spring connected to the plate and to the frame for pressing the free end of the plate against

the articles contained within the said U-shaped frame.

4. An article dispensing device comprising  
35 a casing having a slot in its forward end through which the article is delivered and a depression in its top with an opening through the rear wall and bottom of said depression, a U-shaped frame in the casing  
40 having the bight portion spaced from the adjoining side wall of the casing and its upper member spaced from the top of the casing, a slide movable between said upper member of the frame and top of the casing  
45 and having an operating member extending into the depression in the top of the casing through the aforesaid opening in the rear wall and bottom thereof, an ejector-  
50 arm pivoted to the U-shaped frame and having a pusher working through the arcuate slot in the bight portion thereof, and a link connecting the ejector-arm to the slide; together with a plate pivoted between the  
55 upper and lower members of the U-shaped frame with the free end thereof bearing against the center portion of the articles contained in said frame, and a spring for forcing the free end of the plate against the  
60 articles to press them against the bight portion of the frame.

In testimony whereof, I have affixed my signature.

TEDDY O. LINDEMAN.