

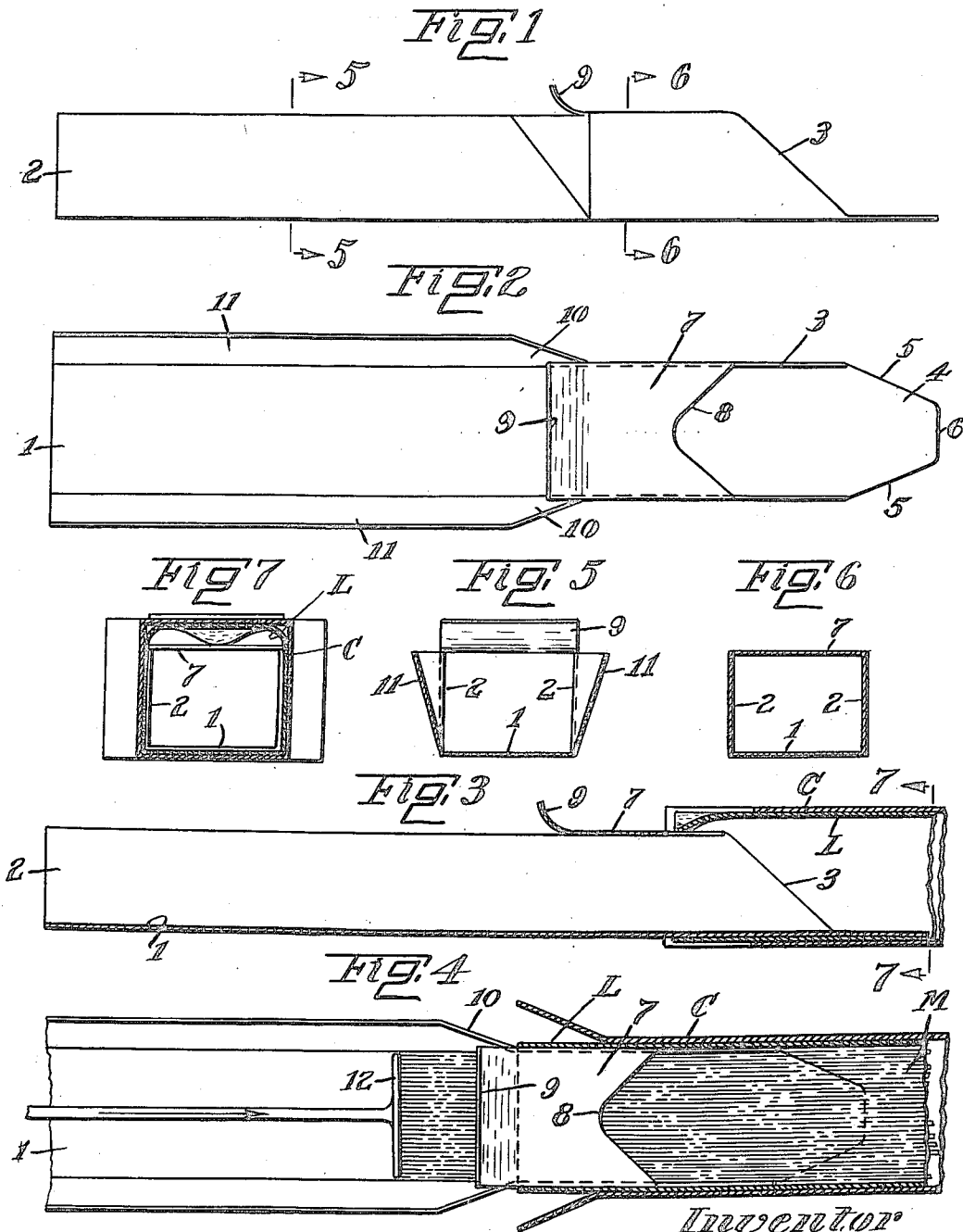
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G. A. ROBINSON

PACKAGING DEVICE

Filed Jan. 18, 1922



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UNITED STATES PATENT OFFICE.

GEORGE A. ROBINSON, OF NORFOLK DOWNS, MASSACHUSETTS, ASSIGNOR TO PNEUMATIC SCALE CORPORATION, LIMITED, OF NORFOLK DOWNS, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

PACKAGING DEVICE.

Application filed January 18, 1922. Serial No. 530,207.

To all whom it may concern:

Be it known that I, GEORGE A. ROBINSON, a citizen of the United States, residing at Norfolk Downs, county of Norfolk, Commonwealth of Massachusetts, have invented certain new and useful Improvements in Packaging Devices, of which the following is a specification.

This invention relates to a combination package charger and lining smoother, and involves certain improvements over the device shown in my concurrently filed application to which reference is made.

The construction and operation of my invention, together with a selected embodiment which well illustrates the principles involved, is described and shown in the accompanying specification and drawings, and the characteristic features of novelty are particularly pointed out in the appended claims. Throughout the specification and drawings like reference numbers are employed to indicate corresponding parts. In the drawings:

Figs. 1 and 2 are side and plan views, respectively, of a device in accordance with my invention.

Fig. 3 is a longitudinal section through the device and showing it partly inserted within a lined carton, also shown in section.

Fig. 4 is a partial plan view thereof showing the device further entered within the carton.

Figs. 5 and 6 are transverse sections on the line 5—5 and 6—6, respectively, of Fig. 1, and

Fig. 7 is a section on the line 7—7 of Fig. 3.

In the present invention, the device consists of a trough-like container comprising a flat bottom 1 and spaced substantially vertical side walls 2. The forward edges 3 of the side walls slope downwardly to meet the bottom 1 and said bottom is extended beyond the juncture of the edges 3 therewith as a tapered entering end or nose 4, the lateral edges 5 of which converge towards each other and terminate in a transverse leading edge 6.

Overlying the bottom 1 and extending from approximately the juncture of the inclined forward edges 3 with the horizontal top edges of the side walls 2 towards the rear is a cover 7. The forward end of said

cover is inclined rearwardly, as indicated at 8 Fig. 2, providing a notch the sides of which continue the rearward inclination of the inclined forward edges 3, and which notch with the tapered nose 4 and the inclined edges 3 smoothes the lining L flatly against the walls of the carton C as the device is entered endwise through the open end of the carton.

The rear edge of the cover 7 is bent upwardly as indicated at 9 providing a stop which has the double function of limiting the entering movement of the charger into the carton by abutment with the carton end (Fig. 4) and of guiding the sticks of macaroni or other material M into the carton. Beyond the guide 9 the side walls 2 of the device are rearwardly inclined as indicated at 10 and outwardly flared as indicated at 11 whereby to enlarge the capacity of the device.

In use, the charge M here indicated as sticks of macaroni, is placed in the trough-like charger and the nose 4 thereof is inserted endwise into the carton until the guide 9 contacts the open end of the carton. During its movement into the carton the wedge formed edges 5, 3 and 8 engage and smooth back the lining flatly against the carton wall so that the charge may be deposited within the lining without any possibility of a portion thereof entering between the lining and the carton walls.

The charge may be expelled from the device either by hand or by inserting a plunger 12 therethrough, as indicated in Fig. 4, the cover 7 guiding the material into the carton.

What I therefore claim and desire to secure by Letters Patent is:—

1. A smoother for a lined carton comprising a trough-like member having a wedge-formed leading end, and a cover for said member having its forward edge tapered to cooperate with said wedge-formed leading end in smoothing back the lining as the device is entered into the carton.

2. A combination charger and lining smoother for a lined carton, comprising a trough-like receptacle adapted to hold a predetermined charge and having a wedge-formed leading end, and a cover for said member having its forward end tapered to cooperate with said wedge formed leading end in smoothing the lining against the

walls of the carton as the device is entered
endwise into the carton and having a com-
bination stop and guide in rear of said
forward edge effective to limit the entrance
5 of the device into the carton and to guide
the charge into the carton as it empties
thereunder.

3. A combination charger and lining
smoother for a lined carton, comprising a
10 trough-like receptacle adapted to hold a
predetermined charge and having a wedge-
formed leading end, and a cover for said
member having its forward edge tapered
rearwardly to cooperate with said wedge
15 formed leading end in smoothing the lining
against the walls of the carton as the device
is entered endwise into the carton and hav-
ing an upturned transversely disposed
flange at its rear edge effective to limit the
20 entrance of the device into the carton by
abutment with the carton and to guide the
charge into the carton as it empties there-
under.

4. A combination charger and lining
25 smoother for a lined carton comprising a
trough-like member adapted to hold a
predetermined charge, a cover for said mem-
ber having a flange adjacent its rear edge,
constituting a stop to limit the entrance of
30 the device into the carton and a guide for
the charge as it empties from the device
into the carton, said member and cover
having tapered leading edges effective to
smooth back the lining as the device is en-
35 tered into the carton.

5. In a combination charger and lining
smoother for a lined carton, a trough-like
member adapted to hold a predetermined
charge and comprising a bottom wall and
40 spaced side walls sloping downwardly at
their forward edges to meet said bottom
wall, a cover overlying said bottom and hav-
ing its forward edge tapered to provide
with the downwardly inclined forward edges

of the side walls a lining expanding and 45
smoothing edge.

6. In a combination charger and lining
smoother for a lined carton, a trough-like
member adapted to hold a predetermined
charge and comprising a bottom wall and 50
spaced side walls sloping downwardly at
their forward edges to meet said bottom
wall, a cover overlying said bottom and ex-
tending rearwardly from substantially the
upper end of said downwardly inclined 55
forward edges of the side walls and termi-
nating in an upturned transversely dis-
posed flange constituting a stop to limit
the entrance of the device into the carton
and a guide for the charge as it empties 60
from the device into carton, and said cover
having its forward edge tapered to provide
with the downwardly inclined forward
edges of the side walls a lining expanding
and smoothing wedge. 65

7. In a combination charger and lining
smoother for a lined carton, a trough-like
member adapted to hold a predetermined
charge and comprising a bottom wall and 70
spaced side walls sloping downwardly at
their forward edges to meet said bottom
wall, and said bottom beyond the juncture of
said edge therewith extending as a tapered
nose, a cover overlying said bottom and hav-
ing its forward edge tapered rearwardly to 75
provide with the downwardly inclined for-
ward edges of the side walls and the tapered
nose of the bottom a lining expanding and
smoothing wedge, the side walls of said
charger in rear of said cover flaring rear- 80
wardly and outwardly.

In testimony whereof I affix my signa-
ture in presence of two witnesses:

GEORGE A. ROBINSON.

Witnesses: ~

WILLIAM A. JOPLIN,
WILLIAM H. NEWERF.