Aug. 21, 1956 B. S. DE VRIES 2,759,544

IMPLEMENT FOR SEVERING A PAPER CONTAINER AT A SELECTED POINT IN ITS LENGTH

Filed July 16, 1954

FIG. 1.

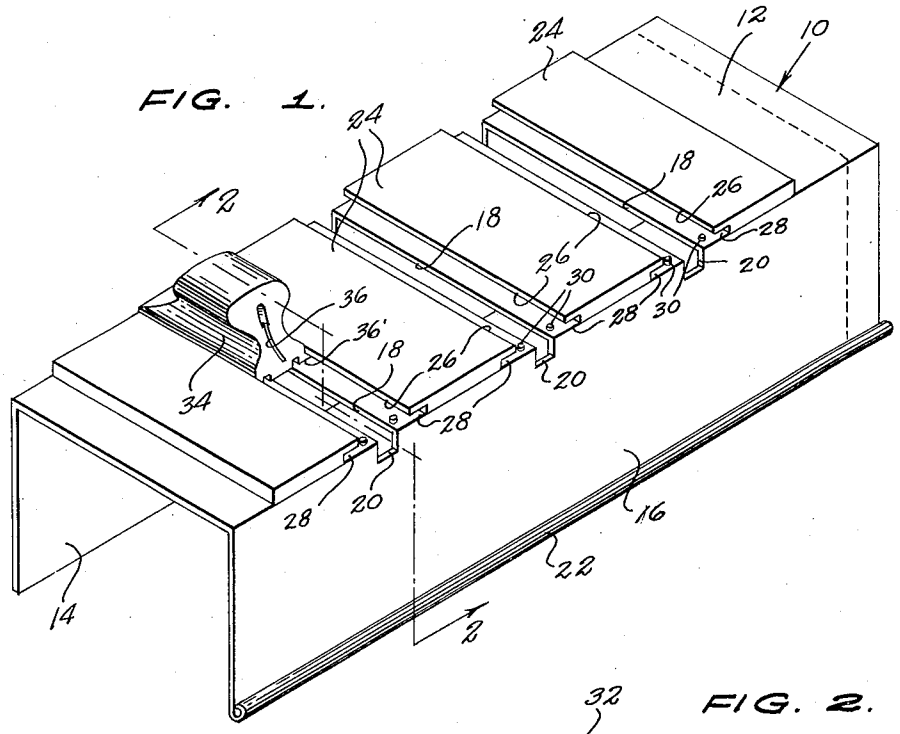


FIG. 2.

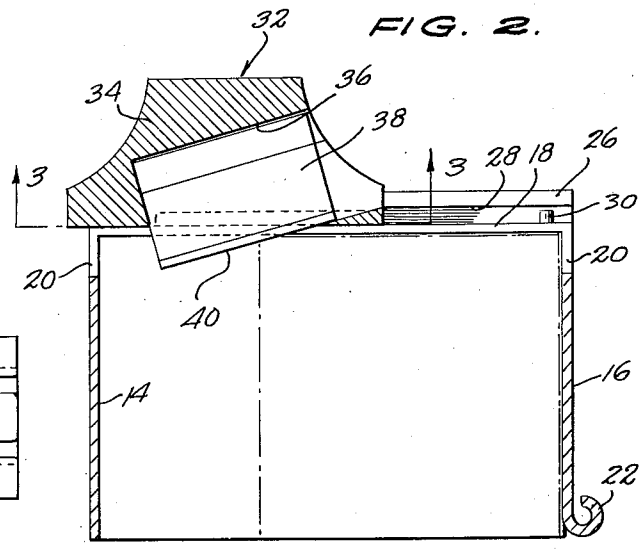
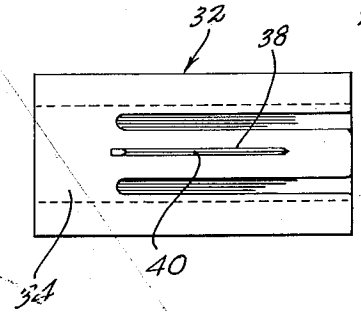


FIG. 3.



INVENTOR.
BENJAMIN S. DE VRIES,

BY

McMorrow, Berman & Davidson

ATTORNEYS.

United States Patent Office

2,759,544

Patented Aug. 21, 1956

2,759,544

IMPLEMENT FOR SEVERING A PAPER CONTAINER AT A SELECTED POINT IN ITS LENGTH

Benjamin S. De Vries, Eugene, Oreg.

Application July 16, 1954, Serial No. 443,891

5 Claims. (Cl. 164—73)

This invention relates to a salvage implement for producing a useful object from an empty paper container such as a milk carton.

The primary object of this invention is to produce useful articles from empty paper containers such as milk cartons or the like by severing the carton at a selected point in its length in order to produce a cup, or a band.

The above and other objects may be attained by employing this invention which embodies among its features a top plate having longitudinally spaced transversely extending slots extending therethrough, flanges carried by the top plate and extending perpendicularly, downwardly therefrom adjacent the longitudinal side edges thereof for partially embracing a paper container, guides carried by the top plate on opposite sides of the slots, a carriage adapted to engage selected guides and move transversely across the top plate in registration with a selected slot, and a blade carried by the carriage for movement thereby through the selected slot to cut through the wall of a carton engaged by the top plate.

Other features include notches opening through the edges of the flanges adjacent the top plate in registration with the slots, stops carried by the top plate and extending upwardly therefrom between the guides for arresting movement of the carriage adjacent one side of the implement, and a blade removably mounted in the slide and extending through the bottom thereof at an angle thereto for movement by the slide through a selected slot to sever the wall of a carton adjacent the top plate.

In the drawings:

Figure 1 is a perspective view of a salvage implement embodying the features of this invention;

Figure 2 is a transverse sectional view taken substantially on the line 2—2 of Figure 1; and

Figure 3 is a bottom plan view of the carriage and blade.

Referring to the drawings in detail, this improved salvage implement designated generally 10 comprises a top plate 12 having flanges 14 and 16 extending perpendicularly therefrom adjacent opposite longitudinal side edges thereof. Extending transversely through the top plate 12 are longitudinally spaced slots 18 and opening through the edges of the flanges adjacent the top plate 12 and in registration with the slots 18 are notches 20. The edge of the flange 16 remote from the top plate 12 is rolled as at 22 to serve as an indicator to define the flange against which a paper carton to be cut is placed. Carried by and extending upwardly from the top plate 12 between the slots 18 are guides 24 having guide flanges 26 which extend outwardly from the guides 24 and are spaced upwardly from the top plate 12 to define channels 28 on opposite sides of the slots 18. Stops 30 are carried by the top plate 12 and extend upwardly therefrom adjacent opposite side edges of the slots 18, adjacent the flange 16.

A carriage designated generally 32 comprises a body 34 having laterally extending flanges 36' which are adapted to enter the channels 28 adjacent a selected slot 18 to guide the carriage across the top plate, as will be readily understood upon reference to the drawings. Opening through one end of the carriage body 34 and through the bottom of the carriage body is a downwardly inclined slot 36 into which is entered through the forward open end of the slot 36 a razor blade 38, the cutting edge 40 of which projects downwardly through the bottom of the slot 36 so that as the carriage is moved across the implement, the cutting edge 40 of the blade will move through a selected slot, and will sever the wall of a paper carton engaged by the top plate 12 and lying between the flanges 14 and 16, as suggested by the broken lines in Figure 2. From the foregoing, it is obvious that the razor blade 38 may be readily removed and replaced through the open front end of the slot 36.

In use, it will be evident that upon introducing a carton into the space between the flanges 14 and 16 so that it engages the flange 16 and the top plate 12, the carriage 32 may be introduced into a selected space between selected guides 24 so that the blade 38 will project downwardly through a selected slot 18 and upon movement of the carriage 32 from the flange 14 toward the flange 16, it will be evident that the cutting edge 40 of the blade 38 will engage the wall of the carton engaged by the top plate 12 to cut the wall along a line which lies perpendicular to the longitudinal axis of the carton. As the carriage 32 approaches the flange 16, the forward end thereof will engage the stop 30 and by the simple process of rocking the device on the bead 22 and rotating the carton, all four walls of the carton may be severed along a selected plane to produce either a cup, or by severing the bottom from the carton, a band may be produced.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What is claimed is:

1. A salvage implement for producing a useful object from an empty paper container such as a milk carton, said implement comprising a top plate having longitudinally spaced transversely extending slots extending therethrough, flanges carried by the top plate and extending perpendicularly downwardly therefrom adjacent the longitudinal side edges thereof for partially embracing a paper container, guides carried by the top plate on opposite sides of the slots, a carriage adapted to engage selected guides and move transversely across the top of the top plate in registration with a selected slot, and a blade carried by the carriage for movement thereby through the selected slot to cut through the wall of a container engaged by the top plate and lying between the flanges.

2. A salvage implement for producing a useful object from an empty paper container such as a milk carton, said implement comprising a top plate having longitudinally spaced transversely extending slots extending therethrough, flanges carried by the top plate and extending perpendicularly downwardly therefrom adjacent the longitudinal side edges thereof for partially embracing a paper container, said flanges having notches opening through the edges thereof adjacent the top plate in registration with the slots, guides carried by the top plate and extending outwardly therefrom adjacent opposite sides of the slots, a carriage adapted to engage selected guides and move transversely across the top plate in registration with a selected slot, and a blade carried by the carriage and extending through the selected slot for movement by the carriage through said slot to cut through the wall of a container engaged by the top plate and lying between the flanges.

3. A salvage implement for producing a useful object

from an empty paper container such as a milk carton, said implement comprising a top plate having longitudinally spaced transversely extending slots extending therethrough, flanges carried by the top plate and extending perpendicularly downwardly therefrom adjacent the longitudinal side edges thereof for partially embracing a paper container, guides carried by othe top plate on opposite sides of the slots, a carriage adapted to engage selected guides and move transversely across the top plate in registration with a selected slot, a blade carried by the carriage for movement thereby through the selected slot to cut through the wall of a container engaged by the top plate and lying between the flanges, and stops carried by the top plate and extending upwardly therefrom between the guides for arresting movement of the carriage adjacent one side of the implement.

4. A salvage implement for producing a useful object from an empty paper container such as a milk carton, said implement comprising a top plate having longitudinally spaced transversely extending slots extending therethrough, flanges carried by the top plate and extending perpendicularly downwardly therefrom adjacent the longitudinal side edges thereof for partially embracing a paper container, said flanges having notches opening through the edges thereof adjacent the top plate in registration with the slots, guides carried by the top plate and extending outwardly therefrom adjacent opposite sides of the slots, a carriage adapted to engage selected guides and move transversely across the top plate in registration with a selected slot, and a blade removably mounted in the slide and extending through the bottom thereof at an angle thereto.

5. A salvage implement for producing a useful object

from an empty paper container such as a milk carton, said implement comprising a top plate having longitudinally spaced transversely extending slots extending therethrough, flanges carried by the top plate and extending perpendicularly therefrom adjacent the longitudinal side edges thereof for partially embracing a paper container, said flanges having notches opening through the edges thereof adjacent the top plate in registration with the slots, guides carried by the top plate and extending outwardly therefrom adjacent opposite sides of the slots, a carriage adapted to engage selected guides and move transversely across the top plate in registration with a selected slot, a blade removably mounted in the slide and extending through the bottom thereof at an angle thereto, said blade extending through a slot in the top plate, and a roll carried by the longitudinal side edge of one of the flanges remote from the back for indicating the flange against which the carton is to be held.

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(First addition to No. 388,074)