June 25, 1968 R. B. SMITH ETAL 3,389,832

TAIL-TAB DISPENSERS

Filed July 10, 1967

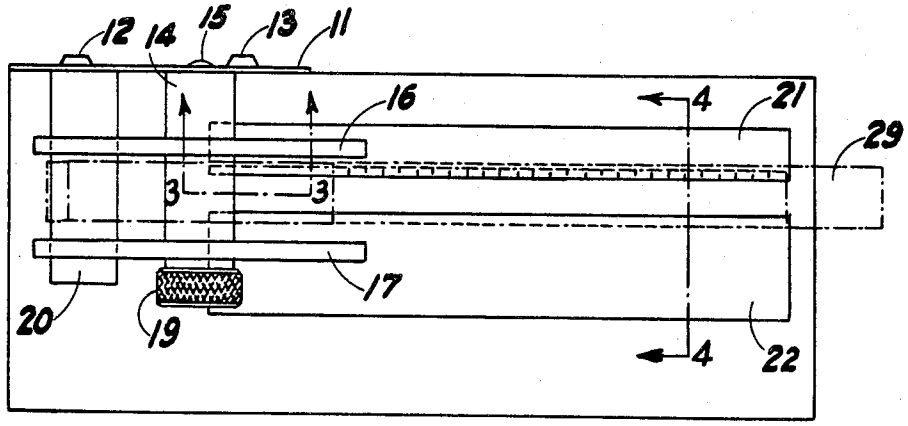


FIG. 2

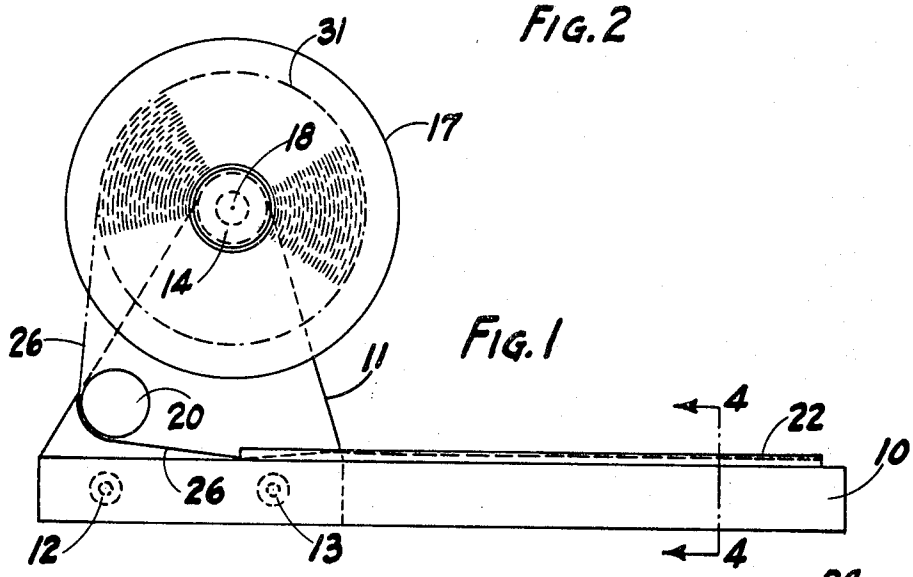


FIG. 1

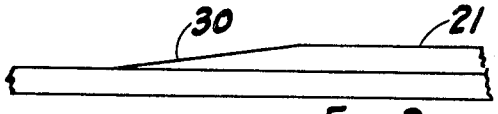


FIG. 3

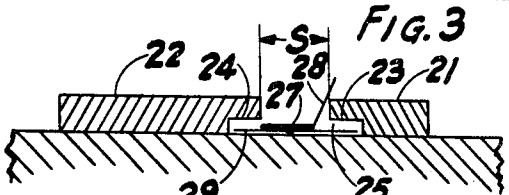


FIG. 4

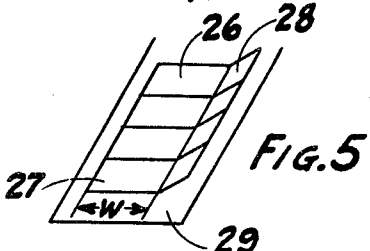


FIG. 5

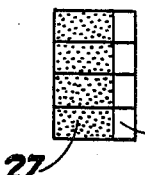


FIG. 6

INVENTORS
REYNOLD B. SMITH AND
JOHN W. GINGERICH.
BY

Sidney N. Rosenfeld
Attorney

United States Patent Office 3,389,832
Patented June 25, 1968

3,389,832

TAIL-TAB DISPENSERS

Reynold B. Smith and John W. Gingerich, York, Pa., assignors to York Tape & Label Corporation, York, Pa., a corporation of Pennsylvania

Filed July 10, 1967, Ser. No. 652,130
4 Claims. (Cl. 221—70)

ABSTRACT OF THE DISCLOSURE

A dispenser in which labels, partially affixed to a tape, are fed from a roll along a track, the track being formed so that the unaffixed part of the label is cammed upwardly into position to be grasped.

This invention relates to a dispenser for gummed tail-tabs of a type commonly used in the textile industry. These tail-tabs generally are mounted on a narrow strip of carrying tape. The tabs have a first gummed portion, which is affixed to the tape and a second ungummed portion or tail which is free of the tape. In use, a fingernail generally is inserted under the ungummed tail portion, forcing it upwardly and then the gummed portion is stripped from the tape, and the tail-tab is ready to be affixed to whatever object it is desired to affix it to by way of the gummed portion. In practice, it has been found difficult to remove these tail-tabs from the tape, and applicant has devised an extremely simple dispenser for the tail-tabs and tape with provision of means for forcing the ungummed tail portion of the tail-tab upwardly from the tape so that it may be readily grasped between two fingers.

In carrying out the invention, applicant provides a dispenser comprising a base with means mounted on the base for receiving a roll of tape and affixed tail-tabs. Also mounted on the base are two elongated plate members, each having an undercut cooperating to form a track for receiving the tape on which the tabs are mounted. One of the plate members has a camming surface terminating in a feathered edge at the point at which the tape is introduced beneath the plate members. The plate members are spaced apart such that when the tape is introduced therebeneath, the ungummed tail portion of the tab overlays the camming surface. As the tape is manually pulled along between the plate members to the terminal ends thereof, the ungummed tail portions of the tabs are cammed upwardly by the camming surface. A full row of tail tabs are then ready for removal from the tape by being grasped by an upturned tail portion. At such time as the entire row is removed, the tape is then advanced manually a distance corresponding to the length of the plate members so that a new row of tail tabs is available for use, and so forth until all the tail tabs have been utilized.

The invention consists of the novel constructions, arrangements and devices to be hereinafter described and claimed for carrying out the above-stated objects and such other objects as will appear from the following description of a preferred embodiment of the invention described with reference to the accompanying drawings, in which:

FIG. 1 is a vertical view of applicant's invention;

FIG. 2 is a plan of the same;

FIG. 3 is a sectional view taken on line 3—3 of FIG. 2, but to a considerably larger scale;

FIG. 4 is a sectional view taken on line 4—4 of FIG. 2, also to a considerably larger scale and with portions thereof shown in disproportionate size to better show details;

FIG. 5 is a perspective of a tape having a plurality of tabs affixed thereto, showing the ungummed tail portions of the tail-tabs in their upraised cammed position ready for grasping; and

FIG. 6 is a rear view of a plurality of tail-tabs prior to their being attached to a carrying tape and showing the gummed and ungummed portions thereof.

Like numerals refer to like parts throughout the several views.

Turning now to the drawings, a base **10** is provided having mounted thereon means for receiving a roll of carrying tape with its affixed tabs. The tape receiving means takes the form of an upstanding bracket **11** attached to the side of base **10** by way of a pair of bolts **12** and **13**. A shaft **14** is attached to the upper portion of bracket **11** by way of a bolt **15**. Shaft **14** receives a pair of circular tape retaining members **16** and **17**. Circular member **16** is permanently attached to shaft **14** by any suitable means, while circular member **17** is removably mounted thereon. Shaft **14** is provided at the free end thereof with a threaded member **18** on which circular member **17** is received. A nut like member **19** screws on threaded member **18** to hold circular member **17** in place. A second shaft **20** is also mounted on bracket **11** by way of a suitable bolt (not shown).

A pair of elongated plate members **21** and **22** are suitably fastened to base **10**. Plate members **21** and **22** are undercut as shown at **23** and **24** respectively, providing a track **25** for the reception of a carrying tape. It will be appreciated that undercuts **23** and **24** have been shown greatly magnified in FIG. 4. In actual practice, the undercuts **23** and **24** are of sufficient magnitude only to receive a carrying tape therebeneath.

Turning now to FIGS. 5 and 6, tail-tabs **26** are comprised of a gummed portion **27** and an ungummed tail grasping portion **28**. Gummed portions **27** are affixed to a carrying tape **29** with tail portions **28** lying free thereon.

Plate member **21** has a camming surface **30** formed on the forward edge thereof (as shown in FIG. 3) for camming tail portions **28** of tail-tabs **26** to an upright position such that they may be easily grasped for removal from the carrying tape **29**. The space "S" between plate members **21** and **22** is somewhat wider than the width "W" of the gummed portion **27** of the tail-tabs **26** but of lesser width than the entire tail-tabs **26**. An elongated length of carrying tape **29** and attached tail-tabs **26** is formed into a roll **31** for use.

In utilizing the invention, circular tape retaining member **17** is removed from shaft **14** and roll **31** is placed on shaft **14**. Circular member **17** is then re-attached to shaft **14** by way of nut **19** and roll **31** is thereby retained in position between circular members **16** and **17**. The tape **29** is then threaded under shaft **20** and inserted into track **25** under plate members **21** and **22**. The tape **29** is oriented such that tail portions **28** of tail-tabs **26** overlay plate member **21**, while the gummed portions **27** are not disposed in undercut **24**. As the tape **29** is manually moved along track **25**, the tail portions **28** of tail-tabs **26** are cammed upwardly by camming surface **30** until they override plate member **21**, as can be seen particularly in FIG. 4. At the terminal ends of plate members **21** and **22**, the tape **29** is stopped until such time as the first tail-tab **26** is grasped by its upturned tail portion **28** and removed from the tape **29**. At such time as the entire row of tail-tabs is removed, the tape **29** is manually advanced a distance corresponding to the length of the plate members **21** and **22**. This process continues until such time as all the tail-tabs **26** have been utilized and a new roll **31** inserted on shaft **14**. It will be appreciated that tape **29** is discarded after use; its only function being as a vehicle for carrying tail-tabs **26** through the dispensing machine.

It will be further appreciated that applicant has developed a device well suited for its intended purpose of facilitating the removal of gummed tail-tabs from a carrying tape by providing means for forcing upwardly from the tape the tail portion of the tail-tab for easy removal.

It should be understood that this invention is not to be limited to the specific constructions and arrangements shown and described, as it will be apparent to those skilled in the art that changes may be made without departing from the principles of the invention.

We claim:

1. A dispenser for tail-tabs, said tabs having a first gummed portion thereof affixed to a carrying tape and a second tail grasping portion thereof being free of said tape; said dispenser comprising a base, means mounted on said base for receiving a tape with a plurality of affixed tail-tabs; a pair of elongated plate members attached to said base, each of said plate members having an undercut portion forming a track to receive said carrying tape therein; a camming surface formed at the forward edge of one of said plate members; said plate members being spaced apart a distance greater than the width of the first gummed portion of the tab but less than the width of the entire tab.

2. A dispenser for tail-tabs, said tabs having a first gummed portion thereof removably affixed to a carrying tape and a second tail grasping portion thereof being free of said tape; said dispenser comprising a base, means mounted on said base for receiving a roll of tape and affixed tail-tabs; a pair of elongated plate members attached to said base, each of said plate members having a portion thereof spaced from said base for accommodating said carrying tape beneath said plate members; a camming surface formed at the forward edge of one of said plate members; said plate members being spaced apart a distance such that when a carrying tape is advanced therebeneath the tail portions of said tabs are cammed upwardly from said carrying tape by said camming surface.

3. A dispenser for tail-tabs, said tabs having a first gummed portion thereof affixed to a carrying tape and a second tail grasping portion thereof being free of said tape; said dispenser comprising a base; means mounted on said base for receiving a tape with a plurality of affixed tail-tabs; a pair of elongated plate members attached to said base, each of said plate members having an undercut portion forming a track to receive said carrying tape therein; a camming surface formed at the forward edge of one of said plate members; said plate members being spaced apart such that when a carrying tape is received in said track the tail portions of said tabs overlie said one plate member and when said tape is advanced said tail portions are cammed upwardly from said carrying tape by said camming surface.

4. A dispenser for tail-tabs, said tabs having a first portion thereof removably affixed to a carrying tape and a second tail grasping portion thereof being free of said tape; said dispenser comprising a base; means mounted on said base for receiving a roll of tape and affixed tail-tabs; a pair of elongated plate members having an undercut portion forming a track to receive said carrying tape therein; a camming surface formed at the forward edge of one of said plate members; said plate members being spaced apart a distance greater than the width of the attached portion of the tail-tab but less than the width of the entire tail-tab such that when a carrying tape is advanced in said track the tail portions of said tabs are cammed upwardly from said carrying tape by said camming surface, said tape being so oriented in said dispenser that the tail portions of the tail-tabs overlay said one plate member.

References Cited

UNITED STATES PATENTS

2,462,816	2/1949	Schner et al.	221—25 X
2,491,282	12/1949	Rowe	156—584
2,781,572	2/1957	Anderson	206—56 X
2,885,114	5/1959	Van der Linden	221—71
3,026,239	3/1962	Porter	156—584
3,040,802	6/1962	Frazer	156—584
3,107,814	10/1963	Auger et al.	221—73
3,212,669	10/1965	Kruger	221—70

SAMUEL F. COLEMAN, *Primary Examiner.*