Sept. 15, 1953

P. BALABAN

2,652,205

MULTIPURPOSE TAPE DISPENSING DEVICE

Filed May 25, 1951

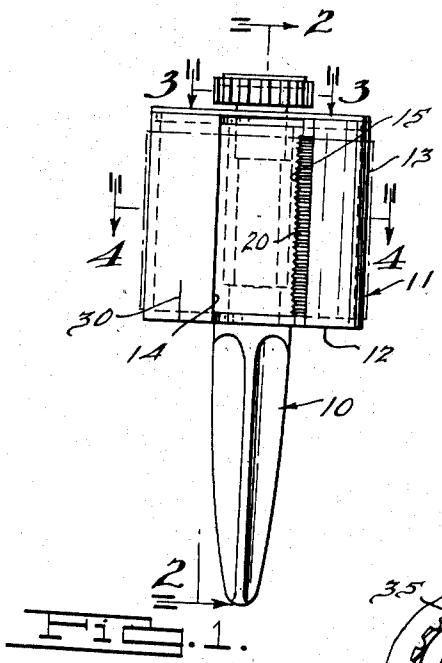


Fig. 1.

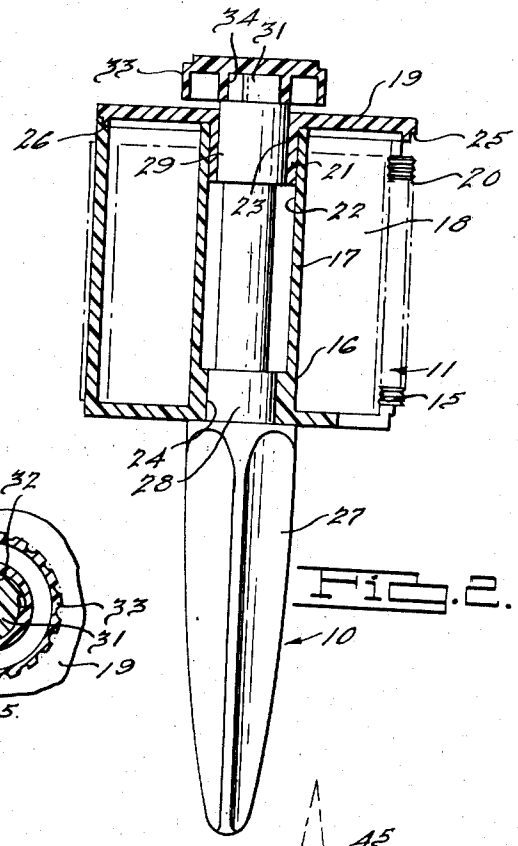


Fig. 2.

Fig. 3.

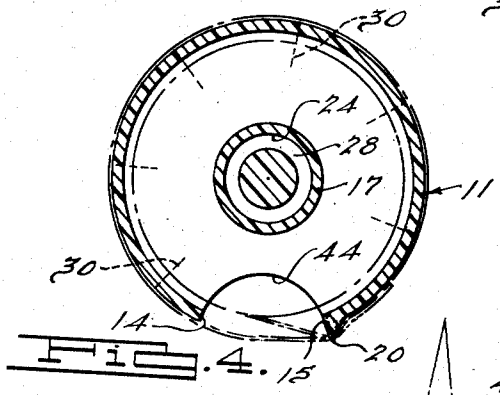


Fig. 4.

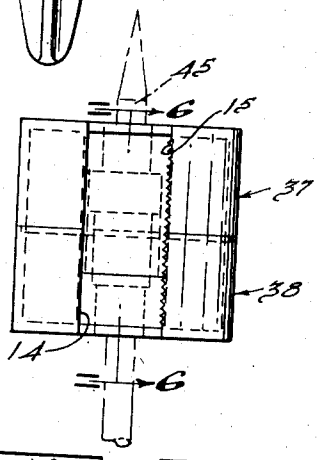


Fig. 5.

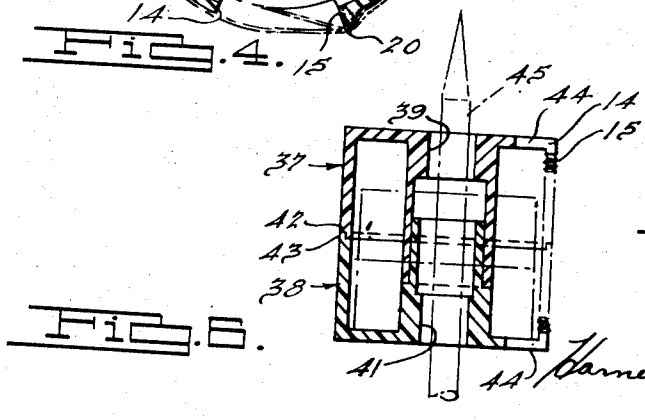


Fig. 6.

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Patented Sept. 15, 1953

2,652,205

UNITED STATES PATENT OFFICE

2,652,205

MULTIPURPOSE TAPE DISPENSING DEVICE

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Application May 25, 1951, Serial No. 228,327

4 Claims. (Cl. 242—55.5)

1

This invention relates to tape dispensing and retaining devices, and particularly to a container for tape from which the tape may be dispensed and on which it may be retained to provide a peripheral tacky surface.

Tacky types of tape, such as that known as "Scotch" tape, have been employed for removing lint, shattered glass, particles and the like from cloth, rugs, floors and other surfaces by winding the tape on the hand with the tacky side out and using the tape by patting the hand upon the cloth or material from which the lint is to be removed. The tacky material on the tape picks up the lint and thereby cleans the fabric or other material. Such a process, however, was found to be wasteful, and the present invention pertains to a tape dispensing device which may also be employed for supporting the tape with the tacky side out for removing lint by rolling the tacky surface over the material.

Accordingly, the main objects of the invention are: to provide a tape-dispensing device which embodies a casing having a cylindrical wall about which the dispensed tape may be secured with the tacky side out; to provide a tape dispensing device embodying a cylindrical casing having an opening from which the tape contained within an annular recess in the casing may be dispensed in predetermined lengths and about the peripheral cylindrical wall of which the tape may be secured with the tacky side out; to provide an axle for supporting a cylindrical casing which is rotatable thereon and about the outer surface of which a strip of the tape withdrawn from the roll within the casing may be secured with the tacky side out so that the tacky surface may be rolled over fabrics for picking up lint therefrom; and, in general, to provide a multipurpose dispenser for tape which is simple in construction and economical of manufacture.

Other objects and features of novelty of the invention will be specifically pointed out or will become apparent when referring, for a better understanding of the invention, to the following description taken in conjunction with the accompanying drawing, wherein:

Figure 1 is a view in elevation of the tape dispensing device embodying features of the present invention;

Fig. 2 is an enlarged sectional view of the structure illustrated in Fig. 1, taken on the line 2—2 thereof;

Fig. 3 is an enlarged sectional view of the structure illustrated in Fig. 1, taken on the line 3—3 thereof;

2

Fig. 4 is an enlarged sectional view of the structure illustrated in Fig. 1, taken on the line 4—4 thereof;

Fig. 5 is a view of structure, similar to that illustrated in Fig. 1, showing a further form which the invention may assume, and

Fig. 6 is a sectional view of the structure illustrated in Fig. 5, taken on the line 6—6 thereof.

Referring to Figs. 1 to 4, a tape dispensing device 10 is illustrated, embodying a cylindrical cup-shaped casing 11, having an end wall 12 and a cylindrical wall 13, broken by a slot 14 on at least one edge of which a plurality of teeth 15 are provided. The casing herein illustrated is made of plastic or other suitable material and the teeth 15 may be provided directly along the edge of the slot of the material or may be made as a separate element of metal, plastic or the like, which may be attached to the edge of the slot in the conventional manner. A hollow hub 16 is provided at the center of the casing, having a wall 17 which is concentric to the cylindrical wall 13. A roll of tape 18 to be dispensed, illustrated in dot and dash line, is disposed in the annular recess provided between the wall 17 and the wall 13. The end of the tape is drawn through the opening 14 in the wall 13 and may be severed by the teeth 15 along one edge of the opening.

An end wall 19 has a hub portion 21 extending within the enlarged interior 22 of the cylindrical wall 17 to have the cylindrical opening 23 thereof aligned with the opening 24 of the hub 16. The peripheral edge of the end wall 19 is shouldered at 25 for mating with a shoulder 26 on the end of the wall 13. A handle 27 has a pair of spaced bearing portions 28 and 29 which engage the inner surfaces of the openings 23 and 24 of the hub portions 16 and 21 on which the casing may rotate.

It will be noted in Figs. 1, 2 and 4 that the edge of the opening 14 of the wall 13 provided with the teeth 15 may have a triangular ridge 20 extending outwardly thereof and along which the teeth also extend providing projecting points over which the tape is torn, as illustrated in Fig. 4. Indicating marks 30 may be provided on the walls 12 and 13 spaced an inch or fraction thereof apart so that a length of tape to be dispensed may be measured around the wall before the tape is cut.

Projecting from the end of the bearing 29, a locking projection 31 is provided, having locking cam surfaces 32 on the peripheral wall thereof. A cap 33 has a hollow central portion 34 on the

walls of which projecting cam portions **35** are provided which wedge against the cam surfaces **32** on the projecting end **31** of the handle assembly **27** when the cap is rotated clockwise thereon. The cap is secured on the end of the handle and retains the end wall **19** in locked relation on the casing **11**. The end of the roll of tape **18** may be withdrawn through the slot **14** and, after a predetermined desired length is withdrawn, may be torn from the roll along the teeth **15** at the edge of the slot. Sufficient of the tape may be withdrawn to wind about the wall **13** of the casing to extend across the slot **14** and be secured about the wall **13** when adhered to the tacky surface of the tape adjacent to the slot. This provides an outwardly disposed tacky surface throughout the entire cylindrical wall **13** of the casing and across the slot **14** thereof, which permits the tacky surface to be rolled over cloth, rugs, floors, or other surfaces, to pick up particles, lint, glass and the like therefrom.

It will thus be seen that the tape dispenser **10** is of a multi-purpose type, one from which lengths of tape may be withdrawn and torn from the roll or which may be wound about the surface of the cylindrical wall **13**, with the tacky side out so that the tape dispenser may be employed for picking up lint particles and the like when the casing is rolled over cloth or other material.

In Figs. 5 and 6, a further form of the invention is illustrated, that wherein a pair of cuplike casings **37** and **38**, having mating hub portions **39** and **41** and mating shouldered edges **42** and **43**, are provided so that after the roll of tape is placed within the annular space between the outer wall and the hub portion, the two casing portions **37** and **38** are retained in unit aligned relation by the engagement of the hub portions **39** and **41** and the shouldered portions **42** and **43**. A slot **14**, having teeth **15** along the edge, is provided in the casing portions **37** and **38**, to be disposed in aligned relation when the casing portions are assembled. It will be noted in either arrangement that the slot **14** extends into the end walls of the casing at **44** to permit access of the finger into the casing for grasping the end of the tape so that it may be withdrawn.

In the arrangement illustrated in Figs. 5 and 6, any object may be employed, such as a pencil **45**, on which the dispenser may be rolled in the same manner as indicated above, thereby providing a multi-purpose dispenser without the handle **27**. Such a tape dispenser is cheaper to construct and may be desirable for small rolls of tapes or tapes of small width. It is to be understood that one of the casing portions **37** and **38** may be employed for a narrow roll of tape and the end wall **19** added thereto for closing the open side, the same as in the structure illustrated in Figs. 1 to 4. The engagement of the hub portions **39** and **41**, provided on one of the casing portions **37** and **38** and on the end wall **19**, along with the shoulders **42** and **43**, will retain the cover on the casing portion.

In either of the constructions herein described, a multi-purpose tape dispenser is provided in which the casing supports the roll of tape in a manner that lengths may be dispensed therefrom or in a manner to support a length of tape about the cylindrical wall of the casing, with the tacky side out. The casing may be rolled on its center to have the tacky side of the tape pick up

lint and particles from fabrics or other material on the bearing of the handle **27** or other object, such as a pencil **45**.

What is claimed is:

1. In a multi-purpose tape dispenser, a separable casing having a cylindrical wall containing a slot through which tape may be dispensed, a hub within the casing on which a roll of tape may be supported, the outer surface of said wall being relatively smooth so that the tape when drawn through the slot may be secured with the tacky side out about said cylindrical wall and across said slot to provide a substantially cylindrical tacky surface, a handle pivoted in the center of said casing and extending from one side thereof on which said casing is free to roll, and means for securing said handle on said casing.

2. In a multi-purpose tape dispenser, a separable casing having a cylindrical wall containing a slot through which tape may be dispensed, a hub within the casing on which a roll of tape may be supported, the outer surface of said wall being relatively smooth so that the tape when drawn through the slot may be secured with the tacky side out about said cylindrical wall and across said slot to provide a substantially cylindrical tacky surface, said hub having a hollow interior, a handle having a cylindrical portion extending through the hollow interior of said hub, and a cap removably clamped on the end of said cylindrical portion.

3. In a multi-purpose tape dispenser, a separable casing having a cylindrical wall containing a slot through which tape may be dispensed, a hub within the casing on which a roll of tape may be supported, the outer surface of said wall being relatively smooth so that the tape when drawn through the slot may be secured with the tacky side out about said cylindrical wall and across said slot to provide a substantially cylindrical tacky surface, said hub having a hollow interior, a handle, said handle having a cylindrical extension projecting through said hub, and a removable locking element secured to the end of said cylindrical extension.

4. In a multi-purpose tape dispenser, a separable casing having a cylindrical wall containing a slot through which tape may be dispensed, a hub within the casing on which a roll of tape may be supported, the outer surface of said wall being relatively smooth so that the tape when drawn through the slot may be secured with the tacky side out about said cylindrical wall and across said slot to provide a substantially cylindrical tacky surface, said hub having a hollow interior, a handle, said handle having a cylindrical extension projecting through said hub, a removable locking element secured to the end of said cylindrical extension, and tear teeth along one edge of said slot permitting the tape to be torn from the roll.

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