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DEVICE FOR STORING AND AFFIXING ADHESIVE STRIPS

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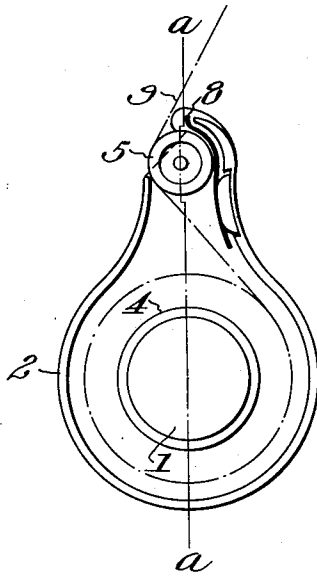


Fig. 1.

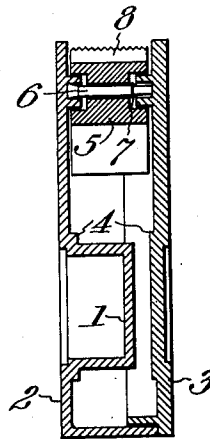


Fig. 2.

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DEVICE FOR STORING AND AFFIXING
ADHESIVE STRIPS

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5 Claims. (Cl. 206—52)

The present invention relates to devices for storing and affixing adhesive strips.

One object of the present invention is a device for storing and affixing adhesive strips having a plastic adhesive coating, which device exhibits considerable advantages and which, whilst being constructed in a particularly compact and handy form, protects the adhesive strip from external influences and renders it possible to affix and cut off the adhesive strip perfectly and accurately in the desired length in the simplest way with one hand only. The device consists of a suitable container or box which is provided in its interior with a roller or a non-movable cylinder carrying the adhesive strip and is further provided in its outlet opening with a pressing roller which serves for guiding the adhesive strip. This pressing roller alone projects laterally beyond the lateral outlines of the box and behind it at the end of the box a cutting off blade is arranged. Since the pressing roller can generally be made much smaller than the roller or the cylinder carrying the adhesive strip the box exhibits a very handy approximately oval form. The box is preferably made from an under part containing the carrier roller and the pressing roller as well as the cutting off blade and an upper part serving as closure of the box and is, when in use, entirely closed except for the lateral opening out of which the smaller pressing roller projects—only however to the necessary extent. The pressing roller closes up the said opening except for two narrow slits. Through one of these slits the adhesive strip emerges. If the box is passed in the flat position with slight pressure over an article or base, the adhesive strip will be stuck smoothly on to the base by the pressing roller. At the narrowed end of the box, which, as aforesaid, may for example be substantially oval, the cutting off blade, which is preferably constructed of toothed form, is arranged in such manner that when the box is tipped up out of the operative position the said blade automatically cuts off the emerging adhesive strip without damaging the base. This result is attained by arranging the cutting off blade to project immediately behind the pressing roller to such an extent that when the box is in the vertical position the cutting edge of the blade is pressed into the drawn off adhesive strip, whilst at the same time the blade is maintained at a distance of about 1 to 2 mm. from the base by two projections located laterally to the blade.

The accompanying drawing shows one con-

structional form of the device according to the invention in approximately natural size.

Fig. 1 is a plan of the device with the cover removed, and

Fig. 2 is a section thereof taken on the line a—*a*.

The under part of the device is provided with a roller or with a stationary inwardly pressed cylinder 1 which serves for the reception of a roll of adhesive strip wound upon a cardboard or other support and retains and centres the roll of adhesive strip. In order that the roll of adhesive strip should not adhere at its more or less sticky side surfaces to the interior of the box during the drawing off operation inwardly 15 projecting annular surfaces 4 are provided on the under part 2 and the upper part 3 respectively, the said surfaces having an outer diameter which is not greater than that of the cardboard ring of the roll of adhesive strip. At the 20 narrowed end of the device in the outlet opening an easily running pressing roller 5 is arranged which renders it possible to roll the adhesive strip on to the base without difficulty.

When the device is manufactured from any 25 suitable artificial materials, such as, for example, "bakelite" (registered trade-mark) or the like, the pin 6 which carries the pressing roller is preferably fitted in at the same time and the roller itself is prevented from falling out by means 30 of a spring ring 7. Immediately behind the pressing roller a toothed cutting off blade 8 is arranged which is riveted to the inner wall of the under part or is arranged so that it can be pushed in, in such manner that only the 35 toothed edge projects beyond the lip of the box. The ends of the upper and lower parts are provided with projections 9 in such manner that the cutting edge lies within and is protected by the said projections. When the device is taken into 40 use it is grasped in such manner that the thumb rests on the middle of the cover, the middle finger in the recess of the under part and the index finger on the curved lip of the device. The roll of adhesive strip is placed in position in such 45 manner that its commencement projects in front of the pressing roller of the device and that the side of the strip which is coated with adhesive is directed away from the said roller. The cutting or tearing off of the adhesive strip is effected for instance by moving the device through about 90° 50 upwardly, so that the pressing roller and the roll of adhesive strip are located in a vertical line, whereupon the under part of the device is caused to carry out a sudden horizontal move-

ment, during which the part of the strip which has been affixed to the base is separated from the remainder of the roll by the toothed blade.

When the device is taken out of use and it is desired to carry it about in the pocket, the part of the adhesive strip projecting from the box is stuck by means of the adhesive coating to the adjacent lateral surface of the box. In order to facilitate the detachment of the end of the strip from the said surface the part of the latter coming into question may be grooved or rendered uneven in any other suitable manner.

I claim:

1. As a new article of manufacture a device for storing and affixing adhesive strips having a plastic adhesive coating comprising a box consisting of an upper part and an under part, the upper part serving as closure of the box, the under part consisting of a bottom and lateral walls with one lateral outlet opening, carrying at the bottom a support for carrying the roll of the adhesive strip and in the said outlet opening a movable pressing roller adapted for pressing the adhesive strip upon a base alone projecting laterally beyond the outlines of the box and a cutting off blade behind the said pressing roller.

2. As a new article of manufacture a device for storing and affixing adhesive strips having a plastic adhesive coating comprising a box consisting of an upper and under part, the upper part serving as closure of the box and carrying an annular surface of a diameter corresponding with the carrier ring of the adhesive strip, the under part consisting of a bottom and lateral walls with one lateral outlet opening, carrying at the bottom an annular surface corresponding with that in the upper part, a support for carrying the roll of the adhesive strip and in the said outlet opening a movable pressing roller adapted for pressing the adhesive strip upon a base alone projecting laterally beyond the outlines of the box and a cutting off blade behind this pressing roller, fastened to the said box.

3. As a new article of manufacture a device for storing and affixing adhesive strips having

a plastic adhesive coating comprising a box consisting of an upper and an under part, the upper part serving as closure of the box, the under part consisting of a bottom and lateral walls with one lateral outlet opening, carrying at the bottom a support for carrying the roll of the adhesive strip and in the said outlet opening a movable pressing roller adapted for pressing the adhesive strip upon a base alone projecting laterally beyond the outlines of the box and a cutting off blade behind this pressing roller, fastened to the said box, the said blade being positioned between two projections which are parts of the said box and are located laterally to the blade.

4. As a new article of manufacture a device for storing and affixing adhesive strips having a plastic adhesive coating comprising a box consisting of an upper and an under part, the upper part serving as closure of the box and carrying an annular surface of a diameter corresponding with the carrier ring of the adhesive strip, the under part consisting of a bottom and lateral walls with one lateral outlet opening, carrying at the bottom an annular surface corresponding with that in the upper part, a support for carrying the roll of the adhesive strip and in the said outlet opening a movable pressing roller adapted for pressing the adhesive strip upon a base alone projecting laterally beyond the outlines of the box and a cutting off blade behind this pressing roller, fastened to the said box, the said blade being positioned between two projections which are parts of the said box and are located laterally to the blade.

5. A device for storing and affixing adhesive strips having a plastic adhesive coating comprising a container with one lateral outlet opening, means in the interior of the container for supporting and carrying a roll of adhesive strip, a movable pressing roller in the said outlet opening adapted for pressing the adhesive strip upon a base, means behind the said movable pressing roller for cutting off the adhesive strip.

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