This invention relates to handling devices for packages or the like, comprising a carrier handle extending transversely to a pasting strip.

In distinction from known handling means of this kind, according to the present invention, to that side of the pasting strip which is provided with the adhesive, on the perforate surface thereof, two flexible longitudinal marginal tapes are secured by pasting engagement, a flexible carrier handle strap being pasted to said tapes by means of its end portions.

The said two longitudinal marginal tapes which do not protrude through the pasting strip at any place thereof and thus leave the same intact represent a reinforcing means of the pasting strip in so far as they take the pull resulting from the load and prevent the pasting strip from tearing transversely by action of the carrier handle. In this way is rendered possible to load the handling device considerably, while at the same time the pasting strip can be provided on the upper side of its imperforate surface with advertising matter. The handling device as such can be manufactured with the aid of relatively simple mechanical means.

In the drawing two embodiments of the handling device according to the invention are illustrated by way of example only, in which

Fig. 1 is a perspective elevational view of a first embodiment,

Fig. 2 is a sectional side elevation of Fig. 1;

Fig. 3 is bottom view of Fig. 1;

Fig. 4 is a view similar to Fig. 1 of a second embodiment;

Fig. 5 is a view similar to Fig. 2 of this embodiment.

Fig. 6 shows in a perspective view the handling device, according to the invention, to be applied in service condition to a package, and

Fig. 7 is a bottom view of a modification of the pasting strip.

In the first embodiment of the invention, as shown in the Figs. 1 to 3, by 2 the pasting strip is designated which is coated with adhesive only on one side thereof, two spaced longitudinal reinforcing tapes 3 which are made, for example, of bast, cotton, paper or the like, being arranged on this strip at some distance from the edges thereof. 4 represents a flexible stirrup-shaped carrier handle strap which extends transversely of the strip 2 and is pasted with both of its end portions 4' onto the adhesive coated side of the strip 2. The fastening end portions 4' of the carrier handle strap 4 are bent down on the two longitudinal tapes 3 so as to overlie them loosely, but, if desired, they may be pasted on to these longitudinal tapes 3 also.

When the handling device is in use, the two longitudinal tapes 3, that are pasted onto the adhesive coated strip 2, take the pull resulting from the load without exerting a detrimental effect on this pasting strip consisting of paper, as the strip merely acts as a connecting means for the package (Fig. 6) or other object to be carried. Since these tapes can be securely glued onto the adhesive coated side of the strip 2 the latter can consist of a single layer. The flexibility of the carrier handle provides ample resiliency between the object to be carried and the hand, while the handling device is in use.

Advantageously, the two longitudinal tapes 3 engage the pasting strip 2 loosely at the place where the carrier handle strap passes over them in that they are not pasted on to the strip 2, for example, for a length a, as indicated in Fig. 3.

Owing to this provision, the portion a, that is, the intercrossing portion of each longitudinal tape 3, is relieved from secondary straining, so that the tapes are less liable to tear adjacent to the point of fastening of the carrier handle. Unintentional fishtailing of the pasting strip 2 by action of the carrier handle is checked by the presence of the longitudinal tapes 3 to the effect that the carrier handle can cut into the strip 2 only to a corresponding depth. Thereupon, the carrier handle is held in position by the cut marginal portions of the pasting strip and thus safeguarded against displacement laterally, so as to be prevented from shifting away or disengaging from its point of fastening even if subjected to a lateral pull. In this way the carrier handle is so to speak anchored to the pasting strip in its initial position.

The embodiment illustrated in the Figs. 4 and 5 distinguishes from the preceding one by the feature that between the pasting strip 2, i.e. the longitudinal marginal tapes 3, and the end portions 4' of the carrier handle strap 4 a bearing sheet 5 is inserted. This bearing sheet 5 is placed on the adhesive coated side of the strip 2 with a side thereof which is not coated with an adhesive. The outer side of the bearing sheet 5 is coated with an adhesive and the end portions 4' of the carrier handle strap 4 are pasted thereonto, so that, in this case, the said ends are connected with the pasting strip 2 and the longitudinal marginal tapes 3 only through the intermediary of the bearing sheet 5.

By the presence of the bearing sheet 5 the pasting strip 2 is reinforced at the point of engagement with the carrier handle strap 4. This re-
inforcement safeguards the pasting strip 2 against crimping to a certain extent.

Alternatively, the handling device may be provided with more than two flexible longitudinal tapes for the reinforcement of the pasting strip.

Experience has shown it to be of advantage to facilitate the carrier handle 4 cutting to a desired extent into the pasting strip, in such manner, that the margins of the latter are provided with short cross cuts 8 (Fig. 7) that extend only up to the longitudinal marginal tapes, the cuts being spaced apart in accordance with the width of end portions 4' of the carrier handle strap used, so that, when the handling device is in use, the carrier handle comes to bear against the longitudinal marginal tapes 3 between the said cuts in the pasting strip 2.

What we claim is:

1. In a handling device for packages or the like, a pasting strip coated on one side with an adhesive and being substantially imperforate, two flexible longitudinal marginal tapes secured to said adhesive-coated side of said pasting strip, and a flexible open-ended carrier handle strap extending transversely of said strip pasted on to said tapes with its end portions.

2. In a handling device for packages or the like, a pasting strip coated on one side with an adhesive and being substantially imperforate, two flexible longitudinal marginal tapes secured to said adhesive-coated side of said pasting strip, at some distance from the side edges thereof, and a flexible open-ended carrier handle strap extending transversely of said strip pasted on to said tapes with its end portions.

3. In a handling device for packages or the like, a pasting strip coated on one side with an adhesive and being substantially imperforate, two flexible longitudinal marginal tapes secured to said adhesive-coated side of said pasting strip, and a flexible open-ended carrier handle strap extending transversely of said strip pasted on to said tapes with its end portions, said tapes engaging said strip loosely at the point of intercrossing of said strap with the latter.

4. In a handling device for packages or the like, a pasting strip coated on one side with an adhesive and being substantially imperforate, two flexible longitudinal marginal tapes secured to said adhesive-coated side of said pasting strip, at some distance from the side edges thereof, a flexible open-ended carrier handle strap extending transversely of said strip pasted on to said tapes with its end portions, and cross-cuts provided in the longitudinal marginal portions of said pasting strip at the point of engagement thereof with said strap, said cuts extending up to said tapes and being spaced in accordance with said strap so that the latter comes to bear against said tapes between said cuts, when the handling device is in use.

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