Aug. 13, 1935. L. HIRSCH 2,011,407

PACKAGING DEVICE

Filed July 5, 1932

Fig. 1.

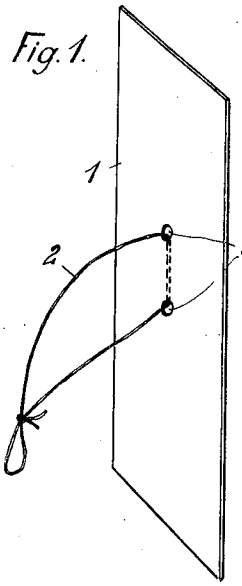


Fig. 2.

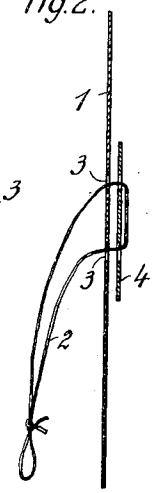


Fig. 3.

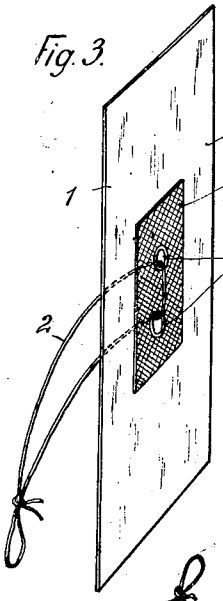


Fig. 4.

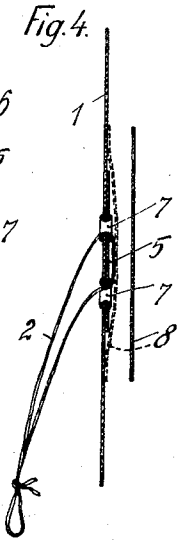
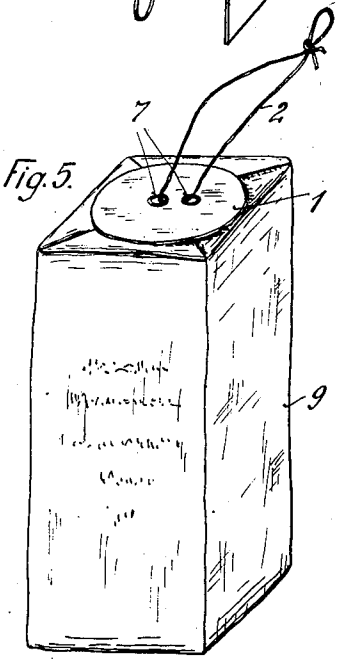


Fig. 5.



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Patented Aug. 13, 1935

2,011,407

UNITED STATES PATENT OFFICE

2,011,407

PACKAGING DEVICE

Ludwig Hirsch, Berlin, Germany

Application July 5, 1932, Serial No. 620,827
In Germany December 11, 1931

7 Claims. (Cl. 229—62)

Adhering members are being increasingly used for sealing packets as well as light, and even heavy, parcels. However, they have the defect that they make no provision for carrying the packet or parcel. On the other hand, tying-up with string, to supplement the adhesive member, would nullify the purpose of the latter.

The present invention provides a packaging device, comprising the combination of an adhering member with a carrying device, which will stand the weight of even heavy parcels, and be able to bear mechanical strains of the most divergent type occurring in the production, carrying and other handling of the parcels.

Preferably the carrying device and the adhering member are relatively secured, while in use, in such a manner that the usual irregularities in handling do not affect this relative security.

Some embodiments of my invention are illustrated by way of example on the accompanying drawing.

Fig. 1 is a perspective view of an adhering sealing member with its carrying device.

Fig. 2 is a central section through the packaging device according to Fig. 1.

Fig. 3 is a rear view, in perspective, of a modification of Fig. 1.

Fig. 4 is a section, corresponding to Fig. 2, of another modification.

Fig. 5 shows the new packaging device attached to a parcel and ready for use.

It can be seen from the drawing that an adhering member 1 is provided, in its central portion, with two holes 3 at a certain distance apart and traversed by an endless carrying device 2.

As is shown in Fig. 2, this carrying device 2 passes through similar holes in backing member 4, bearing loosely against the under side of the adhering member 1.

In the embodiment according to Fig. 3 the backing member consists of a piece of fabric 5, which is cemented on to the gum coating 6 of the member 1, both the member 1 and the fabric 5 being perforated. The edges of the holes are provided with eyelets 7, for their better protection against tearing when a heavy parcel is suspended from the carrying device 2.

The embodiment according to Fig. 4 corresponds to that in Fig. 3, except that the backing member 5 and the portion of the carrying device that is in contact therewith are covered by a member 8, which is gummed on both sides and preferably consists of the same material as the member 1, its width being preferably the same as that of the latter.

Fig. 5 shows the manner of using the packaging device. It will be seen that the member 1 is cemented over and round the closure of the parcel 9, in such a way that the holes 7 occupy a central position. Consequently, in this simple manner, the carrying device 2 is situated in the position which would be occupied by the carrying loop if string tying were employed.

In the embodiment according to Fig. 2, the adherence of the member 1 to the parcel is interrupted, for a short space, at the seat of the backing member 4. For light parcels and small packets, this is free from objection. According to experience, the backing member may consist of cardboard, of any convenient thickness, width and length. For heavy parcels, the embodiment according to Fig. 3 or Fig. 4 is better because, owing to the yielding character of the fabric strip 5, the eyelets 7 can adapt themselves in accordance with the tensional action of the carrying device 2, and also to any unevenness of the packing material.

The term "adhering member" employed in the description implies a member of any convenient width and length and one side of which is intended to adhere; it may consist of paper of various kinds, or of textile fabric, or of rubber or of other suitable materials. Similarly, the carrying device may be made of cord, or of thin wire such as bouquet wire. It may also be made of tape or other fabric composed of hemp, jute, flax, cotton or the like.

Manifestly, it is easily possible to improve the convenience of carrying by locating the knot between the backing member and the adhering member, or between the backing and the member 8 cemented thereon.

As already mentioned, the backing may consist of cardboard or of a variety of textile materials. If the member 8 be made of the same adhering material as the member 1, an embodiment is obtained which, to the uninitiated, is almost indistinguishable from the ordinary adhesive packing members.

In all of the embodiments the stresses developed in the use of the handle 2 for lifting a package are resolved substantially to the plane of the package surface. This results in a distribution of the stresses in every direction in substantially the plane of the package from the point of penetration of the portions of the handle.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. In a packaging device, a handle anchoring

member of sheet material having an adhesive coating on one side thereof, a reinforcing member backing said anchoring member, both said members having spaced registering apertures therethrough, a cord-like member having a handle portion at one side of said anchoring member and extending through said apertures, said cord-like member having an attaching portion adjacent said reinforcing member and extending between said spaced apertures at the other side of said anchoring member, and a member having an adhesive coating on each of its opposite faces, one said adhesive coating securing said member to said reinforcing member and said anchoring member, and the other said adhesive coating cooperating with the said adhesive coating on said anchoring member to provide means for securing said handle anchoring member to a package.

2. In a packaging device, a combined handle anchoring and binder sheet having a central portion provided with a pair of spaced handle-anchoring apertures, an adhesive coating on one side of said sheet, and a cord-like handle member at the side of said sheet opposite said adhesive coating and having a portion extending through each said aperture and into the space between said central portion and the adjacent package surface, whereby stresses developed in the use of said handle for lifting a package are resolved substantially to the plane of the package surface.

3. In a packaging device, a combined handle anchoring and binder sheet having an adhesive coating on one side of said sheet, a reinforcing member for said sheet, both said sheet and said reinforcing member having spaced handle-anchoring apertures therethrough, and a cord-like handle member at the side of said sheet opposite said adhesive coating and having a portion extending through each said aperture and into the space between said reinforcing member and the adjacent package surface, whereby stresses developed in the use of said handle for lifting a package are resolved substantially to the plane of the package surface.

4. In a packaging device, a combined handle anchoring and binder sheet having an adhesive coating on one side of said sheet, a reinforcing member for said sheet, both said sheet and said reinforcing member having spaced handle-anchoring apertures therethrough, a cord-like handle member at the side of said sheet opposite said adhesive coating, and a backing member having an adhesive coating on both faces thereof, said backing member being secured to said reinforcing member and said binder sheet and covering said apertures on the adhesive side of said binder sheet and a portion of the cord-like member which extends through each said aperture and into the space between said reinforcing member and the backing member, whereby stresses developed in the use of said handle for lifting a package are resolved substantially to the plane of the package surface.

5. A packaging device providing a handle for a package, comprising a sheet conformable to the configuration of a package surface, an adhesive coating on one side of said sheet, a reinforcing member adjacent a portion of said adhesive coating, said sheet and said reinforcing member having registering handle-anchoring apertures therethrough, and a backing sheet having an adhesive coating on both faces thereof, said backing sheet being arranged adjacent said reinforcing member to cover said apertures and provide with the coated portion of the first said sheet an uninterrupted adherent surface conformable to the configuration of the package surface for binding the package.

6. A sealing member for packages comprising a strip of flexible material conformable to the configuration of a surface of the package to be sealed and adapted to adhere thereto, a reinforcing member for said flexible sealing strip, both said strip and said reinforcing member having spaced registering apertures therethrough, metallic means associated with said registering apertures for protecting against tearing, and flexible material from the class of cords, wires or fabric tape, looped through said apertures to provide a handle for the package to be sealed.

7. In a packaging device, a combined handle-anchoring and binder sheet having an adhesive coating on one side of said sheet, a reinforcing member for said sheet, both said sheet and said reinforcing member having at least one handle-anchoring aperture therethrough, and a cord-like handle member at the side of said sheet opposite said adhesive coating and having a portion extending through said aperture and anchored in the space between said reinforcing member and the adjacent package surface, whereby stresses developed in the use of said handle for lifting a package are resolved substantially to the plane of the package surface.

LUDWIG HIRSCH.