CASING FOR DEVICES FOR INTRADERMAL APPLICATION

Heinz Wolfgang Hertel, Marburg an der Lahn, and Asmus Reiche, Marburg, near Marburg, Germany, assignors to Behringwerke Aktiengesellschaft, Marburg an der Lahn, Germany, a corporation of Germany

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1 Claim

ABSTRACT OF THE DISCLOSURE

Casing for devices for intradermal application, consisting of a trough-shaped lower part and of a cover.

The present invention provides a casing for devices for intradermal application. French Patent 1,309,352 described a device serving for vaccination purposes or for medicinal dermatologic tests. The said device consists of a plate which is provided with holding elements and, at its bottom side, with points carrying the vaccine; this device is stored in hanging position in a beaker-shaped casing.

The casing of the present invention for devices for intradermal application consists of a trough-shaped lower part serving for separately housing the test devices, and of a cover; the lower part is divided into several compartments the walls of which have, at the inner sides, a recess forming a continuous supporting surface on which the test devices can firmly rest with their sides.

A preferred embodiment of the casing of the present invention is characterized by the fact that the recessed portions of the two longitudinal walls of the lower part of the casing are provided with an undercut.

The devices for intradermal application to be encased according to the present invention carry a test substance and must, therefore, be kept under sterile conditions. A test device consists of a base plate having a size of, for example, about 10 x 10 x 1 mm., onto which is fastened in a right angle a ribbed handle. The bottom side of the base plate, i.e. the side opposite to the side carrying the handle, is provided with several pyramidal points. The test devices are preferably made of a thermoplastic material. The test substance adhering to the points is applied into the skin by puncturing. The casing of the present invention has the advantage that it protects the points against damage and contamination. The test devices are so firmly held in the casing that they cannot fall out.

The casing of the present invention is illustrated by the accompanying drawing, in which FIGURE 1 shows a perspective view of the cover, FIGURE 2 shows a perspective view of the lower part, FIGURE 3 shows a cross-section through the lower part with inserted test device, and FIGURE 4 shows a perspective view of a test device.

As shown in the drawing, the lower part is divided into several compartments 1, the lateral walls of which show recessed portions which thus form continuous resting surfaces on which the test devices (FIGURE 4) are resting firmly with their sides. Undercut 3 of the recessed portions of the inner sides of the two longitudinal walls of the lower part prevents the test devices from falling out.

After having placed the test devices (FIGURE 4) into the lower part (FIGURE 2), the latter is closed by means of a cover (FIGURE 1). The lower part (FIGURE 2) is furthermore provided with a nose 4 which fits into groove 5 cut in at the corresponding place of the cover (FIGURE 1). This nose makes it easy to separate the lower part from the cover by bending. For withdrawing a test device, it is only necessary to tilt it sidewaysly by pressing against the upper part of the handle.

The casing of the present invention is suitably made of a thermoplastic material. Since the lower part of the casing must be able to yield elastically because of the spring action of the walls provided with undercuts, it is of advantage to use, for the manufacture of the lower part, a thermoplastic material that has a certain elasticity. The cover is preferably made of a transparent plastic material, for example, polyethylene, polypropylene or polystyrene.

We claim:

1. A casing for an intradermal device consisting of a trough-shaped lower compartment having end closures each of which is provided with an exterior lug and a plurality of individually isolated compartments having walls transverse to the longitudinal walls of the trough-shaped compartment, a recessed interior ledge running along the walls of the individual compartments defined by the trough-shaped longitudinal walls and the transverse walls, said longitudinal walls of the trough-shaped lower compartment having a longitudinal undercut for at least the length of each of the individual compartments, said undercut being positioned on the interior of said ledge, a test substance in each of the individual compartments, a base plate of an individual test device having a bottom surface and a top surface, the bottom surface of which engages the ledge running along the walls of the individual compartments in a tightly sealing resilient relationship aided by the undercut along the longitudinal walls of said trough-shaped compartment, each individual test device being also provided with pyramidal points on the bottom surface and a handle means on the top surface thereof, and a cover for the trough-shaped compartment engaging the exterior walls thereof and having a cut-out portion to match tightly the exterior lugs insuring a tightly sealing closure.

References Cited

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JAMES B. MARBERT, Primary Examiner.

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