

Title (en)  
Press-button.

Title (de)  
Druckknopf.

Title (fr)  
Bouton-pression.

Publication  
**EP 0286783 A1 19881019 (DE)**

Application  
**EP 88101136 A 19880127**

Priority  
DE 3708311 A 19870314

Abstract (en)

1. A press stud with mutually complementary press stud portions (male portion 10 and female portion 11) having central male or female coupling surfaces (12; 13) on a flange (14), the press stud portions (10; 11) can be mounted to a perforated carrier strip (35) which serves for fixing of the press stud portions (10; 11) to a carrier (34) such as an article of clothing, wherein the coupling surfaces (12; 13) are respectively aligned with the hole (36) in the carrier strip and after application of the carrier strip (35) lie with the underside (18) of their flange against the carrier (34) and the coupling surfaces (12; 13) of the mutually complementary press stud portions of two carrier strips can be brought into engagement with each other from the visible side (39) of the carrier strip, characterised in that the press stud portions (10, 11) can be applied in a row with their flange top side (15) which carries their respective coupling surfaces (12, 13) to the back (37) of a perforated carrier strip (35), the flanges (14) of the press stud portions (10; 11) comprising thermoplastic material are provided on their underside (18) which is remote from the coupling surfaces (12; 13) with a groove (20) extending in an annular configuration around same, and the plate regions (26) of the flange (14) which are disposed on the flange top side (15) and which are in opposite relationship to the groove bottom (21), when using a carrier strip (35), are welded directly on the back (37) of the carrier strip by ultrasound which acts on the plate region (26) which is in opposite relationship to the groove (20) (Figs. 4 and 5), and that the press stud portions (10; 11), alternatively to the carrier strip (35), can be applied directly to the carrier (48) with a fixing cap (40) which lies on the oppositely disposed side (48) of the carrier, the cap (40) has a plurality of pointed (45) projections (42) which can be self-perforatingly pushed through the carrier material (34) and which are arranged on a circle (46) which corresponds to the diameter (47) of the annular groove (20), wherein the press stud portion (10; 11) faces towards the carrier (34) with its flange underside (18), the projection points (45) which project out of the carrier bear against the groove bottom (21) of the press stud flange (14) and their thermoplastic material runs due to ultrasound acting in the groove region (20), at least partially fills the groove (20) and is joined to the material of the flange (14) (Fig. 9).

Abstract (de)

Die patrizenförmige oder matrizenförmige Kuppelflächen (12; 13) aufweisenden Druckknopfteile (10; 11) werden mit ihren Flanschen (14) auf der Rückseite (37) eines gelochten Tragbandes (35) angebracht, das zur Befestigung der Druckknopfteile an einem Träger (34) dient. Die Kuppelflächen durchdragen dabei das Tragband-Loch (36) und sind von der Schauseite des Tragbandes (35) aus miteinander in Eingriff bringbar. Die Flansche (14) werden auf ihrer Unterseite (18) mit einer ringförmig umlaufenden Rinne (20) versehen, deren auf der Flansch-Oberseite (15) gegenüberliegender Bodenbereich (26) für die Verschweißung des Druckknopfteils an einem Tragband (35) dient. Die gleichen Druckknopfteile sind auch über eine Befestigungskappe (40) unmittelbar am Träger (34) anbringbar, wobei die Kappe den Träger durchstoßende Zapfen (42) aufweist, die auf einem dem Durchmesser der Rinne entsprechenden Kreis angeordnet sind und durch einwirkenden Ultraschall zerfließen und die Rinne (20) ganz oder teilweise ausfüllen.

IPC 1-7  
**A44B 17/00**

IPC 8 full level  
**A44B 17/00** (2006.01)

CPC (source: EP)  
**A44B 17/0029** (2013.01); **A44B 17/0035** (2013.01)

Citation (search report)

- [A] DE 1435831 A1 19690417 - SCOVILL MANUFACTURING CO
- [A] GB 2071562 A 19810923 - TEXTRON INC
- [A] DE 1610453 A1 19701105 - UNITED CARR INC
- [A] US 3650647 A 19720321 - JACOBS HERBERT V, et al
- [A] EP 0081148 A1 19830615 - NIPPON NOTION KOGYO [JP]

Cited by  
FR2984498A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0286783 A1 19881019; EP 0286783 B1 19900808; AT E55223 T1 19900815; DE 3708311 A1 19880922; DE 3860409 D1 19900913**

DOCDB simple family (application)  
**EP 88101136 A 19880127; AT 88101136 T 19880127; DE 3708311 A 19870314; DE 3860409 T 19880127**