

Title (en)
Snap fastener unit.

Title (de)
Druckknopfverbindung.

Title (fr)
Assemblage de bouton-pression.

Publication
EP 0401574 B1 19940928 (DE)

Application
EP 90109424 A 19900518

Priority
DE 3918375 A 19890606

Abstract (en)
[origin: US5003673A] A snap fastener wherein the male and female components are sealingly connected with sheet-like carriers of textile or other material. The male component has a male coupling element with a head which defines a cavity and with a collar one side of which is adjacent the inlet of the cavity. A deformable metallic or plastic liner is received in the cavity and has an extension in a depression at the one side of the collar. A first rivet secures the male coupling element to the outer side of a first carrier; to this end, the shank of the rivet extends through the first carrier and into the liner to deform the latter into sealing engagement with the head as well as to urge the outer side of the first carrier against the extension of the liner. The female component has a female coupling element with a socket for the head of the male coupling element and a second rivet having a shank which extends through a second carrier and through a deformable washer which is thereby held in sealing engagement with the female coupling element. The washer is compressed between the inner side of the second carrier and a collar of the female coupling element. A plug of sealing material fills the hollow shank of the second rivet, and a ring of sealing material surrounds the shank of the second rivet and is biased against the outer side of the second carrier.

IPC 1-7
A44B 17/00

IPC 8 full level
A44B 17/00 (2006.01)

CPC (source: EP US)
A44B 17/0005 (2013.01 - EP US); **A44B 17/0088** (2013.01 - EP US); **Y10T 24/45775** (2015.01 - EP US); **Y10T 24/45874** (2015.01 - EP US)

Cited by
WO2020109101A1; BE1026815B1; DE19741779B4; DE19746908C2; DE4411465C1; EP0674858A3; US6170135B1; BE1026815A1; EP1038460A1; US6170129B1; EP0482346B1; EP3886640B1

Designated contracting state (EPC)
BE DE ES FR IT SE

DOCDB simple family (publication)
US 5003673 A 19910402; DE 3918375 A1 19901213; DE 59007308 D1 19941103; EP 0401574 A2 19901212; EP 0401574 A3 19910508; EP 0401574 B1 19940928

DOCDB simple family (application)
US 53342490 A 19900605; DE 3918375 A 19890606; DE 59007308 T 19900518; EP 90109424 A 19900518