

Title (en)
Two-piece plastic clip

Title (de)
Kunststoff-Clip aus zwei Teilen

Title (fr)
Clip plastique en deux parties

Publication
EP 0786416 B1 20000329 (DE)

Application
EP 97200629 A 19940719

Priority
• DE 4327064 A 19930812
• DE 4401111 A 19940117
• EP 94924784 A 19940719

Abstract (en)
[origin: WO9505320A1] A plastic clip in two parts is used for closing sausage casings, bags or the like. The first part (1) holds the end of the casing gathered together into a plait in a U-shaped cavity formed by side faces and cross-bars. The second part (2) bridges the cavity (4) of the first part and is lockingly secured to the first part. The second part (2) is linked at one of its transverse ends to the first part (1) by means of a film hinge (3) and has a locking arm (16) at its other transverse end that may engage a locking projection (22) on the other cross-bar (6) of the first part for closing the clip. A traverse (8) spaced apart from the cross-bar (6) next to the hinge interconnects the side faces (5) and is gripped in the closed state by an arm on the second part, so that a high closing pressure is exercised at the same time as the required elasticity is maintained. A device for closing such a plastic clip has two cavities (37, 39) for receiving both clip parts (33, 34). One cavity (37) is fixed and the other (39) may swivel around an axis (40) aligned with the hinge axis (35) of the clip parts (33, 34). The second reception cavity (39) is swivelled into the closed position of the clip by a mechanical drive (38, 41, 42). In an improvement of the closing device, a positioning arrangement (50) feeds the clip to be closed from a supply channel (32) to the reception cavities (37, 39) of the closing mechanism by means of a cam-controlled driver (56).

IPC 1-7
B65D 33/16

IPC 8 full level
B65B 51/04 (2006.01); **B65D 33/16** (2006.01); **B65D 33/30** (2006.01)

CPC (source: EP US)
B65B 51/04 (2013.01 - EP US); **B65D 33/1675** (2013.01 - EP US); **Y10T 24/15** (2015.01 - EP US); **Y10T 24/44752** (2015.01 - EP US)

Citation (examination)
• DE 9202983 U1 19921105
• US 5125133 A 19920630 - MORRISON WILLIAM [CA]
• GB 2241986 A 19910918 - LUCAS IND PLC [GB]
• EP 0356850 A2 19900307 - ZIMMERMANN ARNOLD

Designated contracting state (EPC)
CH DE DK ES FR IT LI NL

DOCDB simple family (publication)
WO 9505320 A1 19950223; AU 7494794 A 19950314; DE 59404439 D1 19971127; DE 59409258 D1 20000504; DK 0786416 T3 20000710; EP 0712365 A1 19960522; EP 0712365 B1 19971022; EP 0786416 A1 19970730; EP 0786416 B1 20000329; ES 2108487 T3 19971216; ES 2146950 T3 20000816; JP 3187430 B2 20010711; JP H09501379 A 19970210; TW 267141 B 19960101; US 5735022 A 19980407

DOCDB simple family (application)
EP 9402367 W 19940719; AU 7494794 A 19940719; DE 59404439 T 19940719; DE 59409258 T 19940719; DK 97200629 T 19940719; EP 94924784 A 19940719; EP 97200629 A 19940719; ES 94924784 T 19940719; ES 97200629 T 19940719; JP 50669995 A 19940719; TW 83108269 A 19940907; US 55713796 A 19960205