

Title (en)

Device with removable flat rings for a loose leaf binder

Title (de)

Vorrichtung mit entfernbaren flachen Ringen für Hefter von losen Blättern

Title (fr)

Mécanisme à anneaux plats détachables pour classeurs à feuilles mobiles

Publication

EP 0768190 A3 19971217 (FR)

Application

EP 96116041 A 19961007

Priority

IT VI950160 A 19951012

Abstract (en)

[origin: EP0768190A2] The mechanism is made from a fastening strip (1), rings (2) and screws (3), all moulded together in one piece from a plastics material. When required for use, the screws are separated from the strip and fitted through holes (17) in the strip and into prepared holes in the cover of the binder. They are tightened with the aid of a coin in the screw head slots. The rings are also detached from the strip and fitted by shaped lugs (5) engaging with matching recesses (8) in the strip so that they lie perpendicular to it. The tips of the rings' open ends are shaped to engage when pushed together and release when pulled apart. The mechanism can be re-used with a new binder cover when the old one has to be discarded.

IPC 1-7

B42F 13/00

IPC 8 full level

B42F 13/12 (2006.01); **B42F 13/14** (2006.01); **B42F 13/16** (2006.01)

CPC (source: EP US)

B42F 13/12 (2013.01 - EP US)

Citation (search report)

- [A] US 5281040 A 19940125 - HODKIN RICHARD K [GB], et al
- [A] WO 9108913 A1 19910627 - NORDGREN ROBERT [SE]
- [A] US 5018896 A 19910528 - VANNI ROBERT R [US]

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB IT LI NL PT SE

DOCDB simple family (publication)

EP 0768190 A2 19970416; EP 0768190 A3 19971217; EP 0768190 B1 19991222; AT E187936 T1 20000115; CA 2187138 A1 19970413; DE 69605749 D1 20000127; DE 69605749 T2 20000706; ES 2141429 T3 20000316; IT 1280592 B1 19980123; IT VI950160 A0 19951012; IT VI950160 A1 19970412; JP H09164793 A 19970624; PL 316492 A1 19970414; US 5765956 A 19980616

DOCDB simple family (application)

EP 96116041 A 19961007; AT 96116041 T 19961007; CA 2187138 A 19961004; DE 69605749 T 19961007; ES 96116041 T 19961007; IT VI950160 A 19951012; JP 27048096 A 19961014; PL 31649296 A 19961011; US 72476596 A 19961003