

Title (en)
Ring binder mechanism

Title (de)
Ringordnermechanismus

Title (fr)
Mécanisme de reliure à anneaux

Publication
EP 1837199 A3 20080813 (EN)

Application
EP 07103932 A 20070312

Priority
CN 200610059168 A 20060315

Abstract (en)
[origin: EP1837199A2] A ring binder mechanism (100) for retaining loose-leaf pages, comprising: a housing (101); hinge plates (105) supported by the housing (101) for pivoting motion; a plurality of rings each comprising two ring members, at least one of two ring members being mounted to the corresponding hinge plate and moveable with pivoting motion of the corresponding hinge plate relative to the other ring member between a closed position and an open position; and a rotatably mounted control means; wherein each of the ring members comprises a ring section for retaining loose-leaf pages and a ring section for mounting to the hinge plates (105) or the housing (101), and the ring sections for mounting to the hinge plate (105) or the housing (101) of the two ring members of at least one of two rings mounted near the longitudinal ends of the housing form respectively an inside angle of no more than 90° with respect to a plane on which the ring sections for retaining loose-leaf pages of the two ring members locate. Furthermore, two hinge plates have different widths. According to the invention, the raw materials used for producing the ring binder mechanism may be decreased remarkably, thereby lowering the cost for production, package and shipment. The opening between the free ends of the two ring members is also enough to facilitate adding or removing loose-leaf pages from the rings.

IPC 8 full level
B42F 13/24 (2006.01); **B42F 13/22** (2006.01)

CPC (source: EP)
B42F 13/22 (2013.01); **B42F 13/24** (2013.01)

Citation (search report)
• [XY] EP 1382464 A1 20040121 - WORLD WIDE STATIONERY MFG CO [CN]
• [Y] DE 816689 C 19511011 - LUDWIG BREITRUECK
• [Y] GB 1326393 A 19730808 - RELIURE IND S T D
• [Y] DE 3133845 A1 19830317 - KRAUSE KG ROBERT [DE]
• [Y] US 6146042 A 20001114 - TO CHUN ON WILLIAM [HK], et al
• [Y] FR 1313528 A 19621228 - LEITZ FA LOUIS
• [A] CH 675706 A5 19901031 - CHRISTIAN WUETHRICH

Cited by
WO2011104305A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1837199 A2 20070926; EP 1837199 A3 20080813; CN 101037069 A 20070919; JP 2007245721 A 20070927

DOCDB simple family (application)
EP 07103932 A 20070312; CN 200610059168 A 20060315; JP 2007066874 A 20070315