Title (en)
Interlocking ring tip formations for paired ring members of a ring binder mechanism

Title (de)
Ineinandergreifende Ringspitzenformen für gepaarte Ringteile in einem Ringordnermechanismus

Title (fr)
Configuration d'extrémités d'anneaux s'emboîtant pour les segments d'anneaux appariés d'un mécanisme de classeur à anneaux

Publication
**EP 1616715 A1 20060118 (EN)**

Application
**EP 05250456 A 20050128**

Priority
- CN 200410061917 A 20040629
- US 96788204 A 20041018

Abstract (en)
A ring binder mechanism (1) for retaining loose-leaf pages comprises a housing (3) supporting two hinge plates (21) for pivoting motion to open and close ring members (5). Paired ring members (19a,19b) of the mechanism attached to the hinge plates (21) and move therewith between the open and closed positions. Free ends (39a,39b) of the paired ring members (19a,19b) each have a interlocking formation (41a,41b) that is capable of securely joining together when the ring members are in the closed position. The interlocking formations (41a,41b) hold the ring members (5) against misalignment in all directions transverse to longitudinal centerlines of the ring members when the ring members are in the closed position. Some formations are additionally capable of positively engaging each other as the ring members come together to actively bias the ring members into accurate alignment.

IPC 8 full level
**B42F 13/26** (2006.01)

CPC (source: EP)
**B42F 13/26** (2013.01)

Citation (search report)
- [XA] FR 2221924 A5 19741011 - DELKA SA [FR]
- [A] US 4886390 A 19891212 - SILENCE JOSEPH A [US], et al
- [DA] US 2004013463 A1 20040122 - TO CHUN YUEN [HK]
- [DA] US 2119639 A 19380607 - LOTTER ADOLPH G

Cited by
WO2011153950A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
**EP 1616715 A1 20060118**; CA 2495877 A1 20051229

DOCDB simple family (application)
**EP 05250456 A 20050128**; CA 2495877 A 20050203