

Title (en)
Concealed hinge

Title (de)
Verdecktes Scharnier

Title (fr)
Charnière cachée

Publication
EP 2450512 A1 20120509 (EN)

Application
EP 12000728 A 20090306

Priority
• EP 09003262 A 20090306
• IT MI20080717 A 20080418

Abstract (en)
An improved concealed hinge (10) especially for furniture panels or doors, comprises a pair of half shells (12-14), suitable for being inserted into respective seats of a door or panel (48) and of a jamb (46), connected to one another in an articulated fashion and provided with a cavity (16, 18) wherein a cage (20, 22) is arranged and constrained; each cage (20, 22) is provided at two points with means for the adjustment thereof as regards the exposure relative to said cavity (16, 18). said articulated connection of the half shells (12-14) is obtained through pairs of arms (50-52; 50'-52') connected to one another and to said cages (20, 22). A first arm (50, 50') of each pair is provided with a side appendix (54) having a hole (56) that crosses the arms themselves, whereas a second arm (52, 52') of each defines an angular element provided at the bottom with a hole (58) and at the top with a hole (60). Each pair of arms (50-52; 50'-52') is connected to one another by rolls (74) arranged in respective cavities with semi circular profile obtained along contiguous fronts of the arms themselves. (Fig. 9).

IPC 8 full level
E05D 3/06 (2006.01); **E05D 3/18** (2006.01); **E05D 7/04** (2006.01)

CPC (source: EP)
E05D 3/183 (2013.01); **E05D 3/186** (2013.01); **E05D 7/0423** (2013.01); **E05D 2007/0469** (2013.01); **E05D 2007/0476** (2013.01); **E05D 2007/0484** (2013.01); **E05Y 2600/41** (2013.01); **E05Y 2900/20** (2013.01)

Citation (applicant)
US 1693004 A 19281127 - JOSEPH SOSS

Citation (search report)
• [A] US 1693004 A 19281127 - JOSEPH SOSS
• [A] DE 20213155 U1 20021114
• [A] US 3805323 A 19740423 - FUKUI K

Cited by
CN106555527A; US10900265B2; CN103061629A; CN107060547A; US2017030120A1; US9822564B2; US11512513B2; TWI672424B

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2110502 A2 20091021; EP 2110502 A3 20111207; EP 2110502 B1 20131002; DE 09003262 T1 20100408; EP 2450512 A1 20120509; EP 2450512 B1 20131030; ES 2334200 T1 20100308; ES 2334200 T3 20140131; ES 2443963 T3 20140221; HR P20131171 T1 20140103; HR P20140060 T1 20140214; IT MI20080717 A1 20091019; PL 2110502 T3 20140228; PL 2450512 T3 20140430; SI 2110502 T1 20140228; SI 2450512 T1 20140331

DOCDB simple family (application)
EP 09003262 A 20090306; DE 09003262 T 20090306; EP 12000728 A 20090306; ES 09003262 T 20090306; ES 12000728 T 20090306; HR P20131171 T 20131210; HR P20140060 T 20140120; IT MI20080717 A 20080418; PL 09003262 T 20090306; PL 12000728 T 20090306; SI 200930813 T 20090306; SI 200930841 T 20090306