

Title (en)
A hinge for metal door or window units

Title (de)
Scharnier für eine Metalltür oder für Fenstereinheiten

Title (fr)
Charnière pour portes métalliques ou pour fenêtres

Publication
EP 2072727 A1 20090624 (EN)

Application
EP 08171436 A 20081212

Priority
IT BO20070840 A 20071221

Abstract (en)
Described is a hinge for doors and windows comprising a fixed frame (1) and a mobile frame (2) whose profiles form respective fastening grooves (C1, C2) each comprised of a pair (3, 4) of facing upturned L-shaped protrusions or "wings". The hinge (6) comprises: a first hinge body (7) having a first flap (8) that can be associated with the groove (C1) in the fixed frame (1); a second hinge body (10) having a second flap (11) that can be associated with the groove (C2) in the mobile frame (2); a hinge pin (13) defining the axis of rotation (Z) of the mobile frame (2); first fastening means (9) and second fastening means (12), each comprising screw elements (14) inserted into respective holes (15) in each flap (8, 11) and operating on respective stop lock elements (16) acting on the protrusions (3, 4) and housed in the respective grooves (C1, C2); each stop lock element comprises a single polygonal plate (16); at the two distal edges (16a, 16b), on opposite sides of and parallel to the plate (16) and on the flat opposite surfaces of the plate (16) there is a plurality of protuberances (18, 19) which, upon screw fastening, penetrate simultaneously both frontally, that is to say, into the longitudinal sections (3b, 4b), and vertically, that is to say, into the inside surface of the transversal sections (3a, 4a).

IPC 8 full level
E05D 5/02 (2006.01)

CPC (source: EP)
E05D 5/0238 (2013.01); **E05Y 2600/528** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (search report)
• [YA] EP 1609934 A2 20051228 - CERVellini ACCESSORI DI LUIGI [IT]
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• [A] US 6447200 B1 20020910 - HUNGERFORD III C STUART [US]
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Designated extension state (EPC)
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DOCDB simple family (application)
EP 08171436 A 20081212; IT BO20070840 A 20071221; RU 2008150087 A 20081218