

Title (en)
HINGING STRUCTURE FOR WINDOWS/DOORS/SHUTTERS

Title (de)
SCHARNIERSTRUKTUR FÜR FENSTER/TÜREN/JALOUSIEN

Title (fr)
STRUCTURE D'ARTICULATION POUR FENÊTRES/PORTES/VOLETS

Publication
EP 3524761 B1 20220727 (EN)

Application
EP 19156765 A 20190212

Priority
IT 201800002662 A 20180215

Abstract (en)
[origin: EP3524761A1] Hinging structure for windows/doors/shutters, which comprises a first hollow metal profile (100) and a second hollow metal profile (200) respectively provided with a first appendage (105) projecting from a first hinging face (103) and with a first depression (205) receding from the second internal face (201) towards the second hinging face (203). A hidden hinge (300) is also present for rotatably connecting the two hollow metal profiles (100, 200) between a closed position (A), in which the first appendage (105) of the first hollow metal profile (100) is opposite the first depression (205) of the second hollow metal profile (200), delimiting with the second hollow metal profile (200) a first slit (305), and at least one open position (B), in which the hinging faces (103, 203) of the two hollow metal profiles (100, 200) do not face each other. The hidden hinge (300) comprises a first hinge body (2) and a second hinge body (3) mechanically fixed respectively to the first and to the second hinging face (103, 203) of the relative first and second hollow metal profile (100, 200) with the second hinge body (3) which is at least partially embedded within the second cavity (C2) of the second metal profile (200). The hidden hinge (300) also comprises articulation means (4), which rotatably connect the first hinge body (2) and the second hinge body (3) around a hinging axis (Y") parallel to the extension directions (Y, Y') of the two hollow metal profiles (100, 200) and contained within the second cavity (C2) of the second hollow metal profile (200) when the hidden hinge (300) is in closed position (A).

IPC 8 full level
E05D 3/16 (2006.01)

CPC (source: EP)
E05D 3/16 (2013.01); **E05D 5/0215** (2013.01); **E05Y 2600/41** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01); **E05Y 2900/15** (2013.01)

Citation (examination)
EP 2721236 B1 20150826 - RITTAL GMBH [DE]

Cited by
IT202000030671A1; EP4283082A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3524761 A1 20190814; EP 3524761 B1 20220727; IT 201800002662 A1 20190815; PL 3524761 T3 20221121

DOCDB simple family (application)
EP 19156765 A 20190212; IT 201800002662 A 20180215; PL 19156765 T 20190212