

Title (en)

Concealed hinge with an automatic return device toward a closed position

Title (de)

Verdecktes Scharniergelenk mit automatischer Rückstellvorrichtung in eine geschlossene Position

Title (fr)

Charnière masquée avec dispositif automatique de rappel à une position de fermeture

Publication

EP 2781676 A1 20140924 (EN)

Application

EP 14161168 A 20140321

Priority

IT UD20130043 A 20130322

Abstract (en)

Concealed hinge comprising two containing bodies (11, 12) hollow inside, a hinging kinematism (13) disposed inside the two containing bodies (11, 12), in an articulated manner with respect thereto, and at least one elastic element (16) associated to the hinging kinematism (13) in order to apply to the latter a force tending to maintain, or to return, the two containing bodies (11, 12) in a closed position. A magnetic element (17) is disposed inside at least one of the two containing bodies (11, 12), and acts on at least one of the mobile parts which make up the hinging kinematism (13), in order to contribute to maintain, or return, the two containing bodies (11, 12) in a closed position.

IPC 8 full level

E05D 3/18 (2006.01); **E05D 11/10** (2006.01)

CPC (source: EP)

E05D 3/186 (2013.01); **E05D 11/1014** (2013.01)

Citation (applicant)

- US 3004280 A 19611017 - STEIN JOSEPH P
- EP 0352912 A1 19900131 - UNIVERSAL IND PRODUCTS CO A NE [US]
- EP 12188173 A 20121011
- US 1892584 A 19321227 - OLSON JOHN O
- JP H0552181 U 19930709 - ENOMOTO METAL INC [JP]
- EP 1857624 A1 20071121 - FORD GLOBAL TECH LLC [US]

Citation (search report)

- [AD] JP H0552181 U 19930709 - ENOMOTO METAL INC [JP]
- [AD] EP 1857624 A1 20071121 - FORD GLOBAL TECH LLC [US]
- [AD] EP 0352912 A1 19900131 - UNIVERSAL IND PRODUCTS CO A NE [US]
- [AD] US 3004280 A 19611017 - STEIN JOSEPH P

Cited by

CN107663980A; US10655375B2; US11214999B2; CN114144563A; EP3998409A4; US11788331B2; WO2021006096A1; TWI676097B

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2781676 A1 20140924; EP 2781676 B1 20160316; IT UD20130043 A1 20140923

DOCDB simple family (application)

EP 14161168 A 20140321; IT UD20130043 A 20130322