

Title (en)

WINDING DEVICE FOR COVERING WALL OPENINGS OR WINDOWS

Title (de)

WICKELVORRICHTUNG ZUM BEDECKEN VON WANDÖFFNUNGEN ODER FENSTERN

Title (fr)

DISPOSITIF À ENROULEMENT POUR L'OCCLUSION D'OUVERTURES PRATIQUÉES DANS DES MURS OU DE FENÊTRES

Publication

EP 2452034 B1 20180314 (DE)

Application

EP 10743015 A 20100706

Priority

- EP 2010004082 W 20100706
- DE 202009005007 U 20090709

Abstract (en)

[origin: CA2767466A1] The invention relates to a winding device and to a method for covering wall openings or windows. The winding device comprises a covering element that can be rolled up, a deflecting element that has a wave-like design, or is simply formed by a bottom hemline, or a bottom woven fabric edge and/or longitudinal edge, and at least on raising and lowering unit. In addition, the covering element is provided with an upper longitudinal edge, which is preferably arranged in parallel to the deflecting element. The lower longitudinal edge is either connected to the deflecting element, or is formed by the same, so that as a result of a rotation of the deflecting element, or of the lower woven fabric edge and/or longitudinal edge, about a horizontal axis, the covering element can be rolled up or down. The raising and lowering unit comprises at least one cord, wherein at least one free end of the cord is connected to the raising and lowering unit. The cord is arranged such that it encloses the covering element, so that the deflecting element, or the lower longitudinal edge, is guided in the bend of the cord. The at least one cord can be guided in two opposite directions of movement that are relative to one another.

IPC 8 full level

E06B 9/40 (2006.01)

CPC (source: EP KR US)

E04F 10/0648 (2013.01 - KR); **E04F 10/0655** (2013.01 - KR); **E06B 9/40** (2013.01 - EP KR US); **E06B 9/44** (2013.01 - KR); **E06B 9/66** (2013.01 - EP KR US); **E04F 10/0648** (2013.01 - EP US); **E04F 10/0655** (2013.01 - EP US); **E06B 2009/405** (2013.01 - EP US)

Citation (examination)

- US 119983 A 18711017
- US 75037 A 18680303

Cited by

CN102472080A

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 SE SI SK SM TR

DOCDB simple family (publication)

DE 202009005007 U1 20101216; CA 2767466 A1 20110113; CA 2767466 C 20140121; CN 102472080 A 20120523; CN 102472080 B 20151209; DK 2452034 T3 20180618; EA 026010 B1 20170228; EA 201200099 A1 20120830; EP 2452034 A2 20120516; EP 2452034 B1 20180314; JP 2012532260 A 20121213; JP 5852957 B2 20160203; KR 101762976 B1 20170728; KR 20120039706 A 20120425; US 2012138243 A1 20120607; US 8820387 B2 20140902; WO 2011003576 A2 20110113; WO 2011003576 A3 20111124

DOCDB simple family (application)

DE 202009005007 U 20090709; CA 2767466 A 20100706; CN 201080030772 A 20100706; DK 10743015 T 20100706; EA 201200099 A 20100706; EP 10743015 A 20100706; EP 2010004082 W 20100706; JP 2012518810 A 20100706; KR 20127003405 A 20100706; US 201013381782 A 20100706