

Title (en)

Mechanical one-direction friction brake for smooth roll-up of roll fly-screen

Title (de)

Mechanische Reibungsbremse für eine Drehrichtung zum gleichmäßigen Aufrollen eines Insektenschutzgitters

Title (fr)

Frein à friction mécanique unidirectionnel pour enroulement régulier d'une moustiquaire

Publication

EP 1746245 A2 20070124 (EN)

Application

EP 06386022 A 20060710

Priority

GR 2005100369 A 20050718

Abstract (en)

Braking mechanism for controlling and attenuating the roll-up speed of a roll fly-screen which has on the one end a spring for its automatic roll-up. The mechanism is mounted internally on the fly-screen axis (1) and is comprised by a nut (2) which rotates along with the axis (1) and is forced into an axial movement on the screw thread of the stable screw (3). The nut's movement causes the length variation of the spring (4) and the development of friction between the friction element (5) and the ratchet lock (6) as well as on the surface between the ratchet lock (6) and the friction element (7). During the extension of the fly-screen, the ratchet lock allows the free rotation of the fly-screen axis (1) creating braking only during its roll-up stage. The initial position of the nut (2) in relation to the spring determines both its initial prestress and the braking force that would be developed at the friction elements.

IPC 8 full level

E06B 9/54 (2006.01); **E06B 9/80** (2006.01)

CPC (source: EP)

E06B 9/44 (2013.01); **E06B 9/60** (2013.01); **E06B 2009/807** (2013.01)

Citation (applicant)

- GR 1004263 B 20030612 - STAVRAKAS KONSTANTINOS PANAGIO
- EP 0919854 A1 19990602 - NICHIBEI KK [JP]

Cited by

EP3680446A4; JP2020502395A; CN109906302A; EP3219903A1; ITUA20161721A1; WO2018049462A1; US11339608B2; US11970906B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

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