

Title (en)
Roller shutter comprising a device for securing the shutter

Title (de)
Rolladen mit Vorrichtung zum Sichern eines Verschlusses

Title (fr)
Volet roulant présentant un verrou de fixation du tablier

Publication
EP 1722066 A1 20061115 (FR)

Application
EP 06370015 A 20060505

Priority
FR 0504736 A 20050511

Abstract (en)
The apron is placed within a framework of the shutter, which is rolled up around a receiving drum for blockage in rotation. The fastener (4) is introduced between a hang point (5) of the drum (3) and an upper part (6) of the apron (1). The fastener has an articulation element rolled up around the drum when the apron is in high position, and a rigidifying element, which prevents involuntary or untimely raising, when the apron is in low position. The adjuster automatically adjusts the fastener dimension, when the apron is placed in a lower position. The adjustment is made at the level of the hang point by one-way blocker to block the fastener, when the drum is activated in rotation in an unwinding direction of the apron and to slip under the action of the weight of the apron when the drum is activated in rotation in a rolling direction of the apron. The blocking is done by a fixing rider to fix the drum, where the rider is cooperated with a transverse teeth (11) disposed longitudinally with the fastener. The fixing rider has a return wing, which is capable to be slipped/blocked according to the displacement direction of the fastener by the teeth. The transverse teeth has an orthogonal triangular section or in the form of hook. The fastener comprises a contiguous rigid blades which are parallelly disposed and connected by a flexible bonds. The blades and the bonds comprise a monolithic element, where the flexible bonds are realized by cavities constituting of weakenings of section, where the blades are fixed to a flexible element. A fixing agent fixes a monolithic element or a dismountable element to the body of the fastener, which inturn fixes to the upper part of the apron. The shutter further comprises a connection spring, which is distinct from the fastener and is cambered in a lower position to push downwards and is placed in position of the last upper blade of the apron. In the shutter, the upper end of the fastener comprises a stopper rod, which is cooperated directly/indirectly with the drum to the level of the hang point to allow raising the apron, when the drum is activated in the rolling direction.

IPC 8 full level
E06B 9/86 (2006.01); **E06B 9/171** (2006.01)

CPC (source: EP)
E06B 9/171 (2013.01); **E06B 9/86** (2013.01)

Citation (search report)
• [X] EP 0833035 A1 19980401 - ZURFLUH FELLER SA [FR]
• [A] EP 1233141 A1 20020821 - DEPRAT JEAN SA [FR]

Cited by
EP2161403A3; EP3269917A1; FR3053996A1; EP2037078A3; FR2920814A1; EP2161403A2; US12024946B2

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)
AL BA HR MK YU

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