

Title (en)
OPERATOR-FRIENDLY FITTING FOR SASHES WHICH CAN BE DISPLACED IN PARALLEL

Title (de)
BEDIENFREUNDLICHER BESCHLAG FÜR PARALLEL VERSCHIEBBAREN FLÜGEL

Title (fr)
FERRURE FACILE D'UTILISATION POUR OUVRANT À DÉPLACEMENT PARALLÈLE

Publication
EP 2649259 A1 20131016 (DE)

Application
EP 11805608 A 20111212

Priority
• DE 102010061174 A 20101211
• DE 102011000164 A 20110116
• IB 2011055619 W 20111212

Abstract (en)
[origin: WO2012077091A1] The invention relates to a fitting for a slide-and-tilt or sliding sash which can be displaced in parallel. The operator-friendly fitting comprises two lower carriages (4a, 4b) which can be displaced on a running rail and are coupled to one another at a distance by a connecting rod. The fitting has at least one upper sliding element (5a, 5b) that can be displaced in a guide rail and is provided with a second connecting rod. A swivelable extension arm (10a, 10b, 20a, 20b) is associated with each of the two carriages and the at least one upper sliding element. An energy accumulator unit (E, 15, 25) is coupled to one of the extension arms of the carriages or to the extension arm of the upper sliding element. When all extension arms execute a swiveling storing movement, the energy accumulator unit absorbs energy from a closing position during the storing movement of the extension arms. After the latching of at least one of the extension arms of the carriages or the latching of the extension arm of the upper sliding element in the swiveled-out position, this energy is stored.

IPC 8 full level
E05D 15/10 (2006.01)

CPC (source: EP KR)
E05D 15/10 (2013.01 - KR); **E05D 15/1013** (2013.01 - EP); **E05F 11/145** (2013.01 - EP); **E05Y 2201/412** (2013.01 - EP); **E05Y 2900/148** (2013.01 - EP)

Citation (search report)
See references of WO 2012077091A1

Citation (third parties)
Third party :
• EP 0276678 B1 19900912
• DE 7037617 U 19720525
• EP 0360995 A1 19900404 - ARTIERI DEL LEGNO SPA [IT]
• EP 0075364 B1 19871216
• DE 696812 C 19400930 - VER BAUBESCHLAG GRETSCH CO
• US 3510983 A 19700512 - BARABAS CHARLES
• DE 3638784 C2 19881103
• CH 684350 A5 19940831 - PFENNINGER L & CIE AFFA
• DE 2218678 A1 19731025 - GROEZINGER KG

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)
WO 2012077091 A1 20120614; CN 103459744 A 20131218; CN 103459744 B 20150819; CN 103477010 A 20131225; CN 103477010 B 20160629; EP 2649259 A1 20131016; EP 2649259 B1 20170111; EP 2649259 B2 20191127; EP 2649260 A1 20131016; EP 2649260 B1 20170111; EP 2649260 B2 20191127; ES 2621795 T3 20170705; ES 2621947 T3 20170705; HR P20170299 T1 20170421; HR P20170479 T1 20170519; KR 101538563 B1 20150721; KR 101538564 B1 20150721; KR 20130097233 A 20130902; KR 20130097234 A 20130902; PL 2649259 T3 20170731; PL 2649260 T3 20170731; SI 2649259 T1 20170531; SI 2649260 T1 20170531; WO 2012077092 A1 20120614

DOCDB simple family (application)
IB 2011055619 W 20111212; CN 201180067178 A 20111212; CN 201180067179 A 20111212; EP 11805608 A 20111212; EP 11805610 A 20111212; ES 11805608 T 20111212; ES 11805610 T 20111212; HR P20170299 T 20170222; HR P20170479 T 20170321; IB 2011055623 W 20111212; KR 20137018171 A 20111212; KR 20137018175 A 20111212; PL 11805608 T 20111212; PL 11805610 T 20111212; SI 201131143 A 20111212; SI 201131144 A 20111212