

## Title (en)

CONTROL OF A CLOSING MOVEMENT OF A SLIDING SASH HAVING A SOFT-CLOSE FITTING

## Title (de)

STEUERUNG EINER SCHLIESSBEWEGUNG EINES SCHIEBEFLUEGELS MIT EINEM SCHLIESSGEDAEMPFTEN BESCHLAG

## Title (fr)

COMMANDE D'UN MOUVEMENT DE FERMETURE D'UN BATTANT COULISSANT POURVU D'UNE FERRURE À FERMETURE AMORTIE

## Publication

**EP 2663709 A1 20131120 (DE)**

## Application

**EP 12702882 A 20120116**

## Priority

- DE 102011000165 A 20110116
- IB 2012050199 W 20120116

## Abstract (en)

[origin: WO2012095831A1] The invention relates to a soft-close fitting which has improved inward pivotal properties for a sliding sash or a tilt-and-slide sash for the controlled movement of the sash from a position in which the sash is open in a plane parallel to the frame into a closed position. Two movement elements (A, B) are longitudinally mobile, a longitudinal movement of the sash thus being possible. The two movement elements (A, B) are connected by a connecting rod (z) which maintains them at an invariable distance to each other and allows their simultaneous movement. A deployment arm (a, b; b') is pivotally hinged to each of the two movement elements (A, B). A parallel opening arrester (r, f') maintains a position of deployment of the arms (a, b) during a movement of the fitting by means of the movement elements (A, B). An auxiliary arm (h, h') is rotationally coupled (a2, b2') to one (a, b') of the deployment arms on one of its ends and is longitudinally guided (h1, 12; h1', 12') on the other end along the connecting rod (z). A damping element (10, 10') is coupled on one end to the slidable end of the auxiliary arm (h, h') and is arranged (w) on the other end on the connecting rod (z) so as to be not displaceable. The inward pivotal movement of a heavy sliding sash is thus easier to handle for the user and simpler (easy and at the same time reliable as well as smooth and uniform).

## IPC 8 full level

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## CPC (source: EP KR)

**E05D 15/10** (2013.01 - KR); **E05D 15/1013** (2013.01 - EP); **E05F 5/003** (2013.01 - EP); **E05F 11/145** (2013.01 - EP); **E05Y 2201/412** (2013.01 - EP); **E05Y 2900/132** (2013.01 - EP); **E05Y 2900/148** (2013.01 - EP)

## Citation (search report)

See references of WO 2012095831A1

## Citation (third parties)

Third party :

- EP 0276678 B1 19900912
- EP 0360995 A1 19900404 - ARTIERI DEL LEGNO SPA [IT]
- DE 7037617 U 19720525
- 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

## Cited by

EP3428376A1

## Designated contracting state (EPC)

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## DOCDB simple family (application)

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