

Title (en)

WINDOW MODULE WITH IMPROVED LIFTING ASSEMBLY, AND ROOF LIGHT SYSTEM COMPRISING SUCH A WINDOW MODULE AS A CEILING MODULE

Title (de)

FENSTERMODUL MIT VERBESSERTER HEBEANORDNUNG UND DACHLICHTSYSTEM MIT EINEM SOLCHEN FENSTERMODUL ALS DECKENMODUL

Title (fr)

MODULE DE FENÊTRE COMPORTANT UN ENSEMBLE DE LEVAGE AMÉLIORÉ ET SYSTÈME D'ÉCLAIRAGE DE TOIT COMPRENANT UN TEL MODULE DE FENÊTRE EN TANT QUE MODULE DE PLAFOND

Publication

EP 3792423 A1 20210317 (EN)

Application

EP 20194847 A 20200907

Priority

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Abstract (en)

In the window module (5) a lifting assembly (10) provides modulation of the movement of the sash (53) relative to the frame (51) when the sash (53) is swung out of the window module plane from a closed position to an open position and back. The lifting assembly (10) comprises a frame base plate (11) connected to the frame (51), a sash base plate (12) connected to the sash (53), a linkage mechanism including a main link (13) connected to the frame base plate (11) in a first hinged joint (131), and a sash link (14) connected to the sash base plate (12) in a sash-side hinged joint (141). The sash link (14) is connected to the main link (13) in a second hinged joint (132), and a spring device (15) having two ends is provided and connected at one end to the main link (13) in a third hinged joint (133) and at the other end (151) connected to the frame base plate (11) or the frame (51) of the window module (5) in a frame-side hinged joint (151).

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

- EP 1756481 B1 20080730 - VKR HOLDING AS [DK]
- EP 1756482 B1 20080730 - VKR HOLDING AS [DK]
- EP 1841931 B1 20111214 - VKR HOLDING AS [DK]
- US 5613333 A 19970325 - WITZIG JR MICHAEL J [US]
- US 6604329 B2 20030812 - HOY WALTER S [US], et al
- US 2005081462 A1 20050421 - MULFORD TRAVIS M [US], et al

Citation (search report)

- [XAYI] DE 3338092 A1 19850502 - EBERSPAECHER J [DE]
- [Y] EP 1103690 A1 20010530 - FORTMEIER JOSEF [DE]
- [Y] EP 2423406 A1 20120229 - CAODURO PAOLO [IT], et al
- [Y] JP 2012160288 A 20120823 - TAKIRON CO, et al
- [I] US 2007264924 A1 20071115 - PUOTUNEN JUSSI P [FI], et al
- [A] US 2004043722 A1 20040304 - RICHTER STEFAN [DE]
- [A] DE 2852915 A1 19800619 - KLOEBER FA HANS [DE]
- [A] DE 8816626 U1 19900125
- [A] DE 3133801 A1 19820603 - SHAW MFG LTD [GB]

Cited by

CN117211477A

Designated contracting state (EPC)

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