

Title (en)

DAMPER ASSEMBLY FOR LIFT SLIDING WINDOW/DOOR

Title (de)

DÄMPFERANORDNUNG FÜR HEBE-SCHIEBE-TÜR/-FENSTER

Title (fr)

ENSEMBLE AMORTISSEUR DE FENÊTRE/PORTE COULISSANTE D'ASCENSEUR

Publication

EP 4019727 A1 20220629 (EN)

Application

EP 21215449 A 20211217

Priority

KR 20200181344 A 20201222

Abstract (en)

A damper assembly for a lift sliding window/door is disclosed. The damper assembly for a lift sliding window/door according to the present disclosure, configured to, when a handle is unlocked, ascend from a lower frame to be slidable for opening and closing, and when the handle is locked, descend to be refrained from sliding, including: a fixing protrusion installed to an upper frame; a first bracket installed on the upper surface of the window/door; a movable body having one end axially-coupled to the first bracket such that the other end thereof rotates in the elevating direction of the window/door with reference to the first bracket; a damping part provided on the movable body to engage with the fixing protrusion during the sliding operation of closing the window/door, so as to reduce the sliding speed; and a second bracket installed on the upper surface of the window/door such that an engagement between the damping part and the fixing protrusion is maintained in response to the elevation of the window/door, the second bracket performing regulation such that the other end of the movable body rotates in a predetermined range. According to the present disclosure, the impact noise and physical injury caused by acceleration when the window/door is closed can be prevented by the damping part, and the engagement between the fixing protrusion and the damping part can be stably maintained by the rotation of the movable body, thereby enabling smooth opening operation of the window/door with light force. Further, the damper assembly not only allows easy and simple installation even in a small space but also allows easy maintenance due to the simple structure thereof, in spite of the damping part being provided thereon.

IPC 8 full level

E05D 15/56 (2006.01); **E05F 5/00** (2017.01)

CPC (source: EP)

E05D 15/565 (2013.01); **E05F 5/003** (2013.01); **E05Y 2201/256** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2201/412** (2013.01); **E05Y 2201/46** (2013.01); **E05Y 2600/12** (2013.01); **E05Y 2800/296** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (applicant)

KR 101559676 B1 20151013

Citation (search report)

- [X] DE 102017113862 B3 20180920 - HAHN GASFEDERN GMBH [DE]
- [A] EP 3221539 B1 20190313 - SIEGENIA AUBI KG [DE]

Cited by

EP4357289A1; PL131727U1; WO2024083952A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 4019727 A1 20220629; **EP 4019727 B1 20230705**; KR 102310039 B1 20211007

DOCDB simple family (application)

EP 21215449 A 20211217; KR 20200181344 A 20201222