

Title (en)  
LIFTING-LOWERING AND SLIDING GROUP FOR DOOR OR WINDOW WINGS

Title (de)  
HEBE-ABSENK- UND SCHIEBEGRUPPE FÜR TÜR- ODER FENSTERFLÜGEL

Title (fr)  
GROUPE COULISSANT ET DE BAISSÉ DE LEVAGE POUR BATTANTS DE PORTE OU FENÊTRE

Publication  
**EP 2535492 A1 20121219 (EN)**

Application  
**EP 12172242 A 20120615**

Priority  
IT MI20111103 A 20110617

Abstract (en)  
The present invention refers to a lifting-lowering and sliding group (10) for door or window wings (102), comprising at least one carriage (11a, 11b) in turn comprising a support body (14a, 14b) which is provided with support and rolling elements (15a, 15b) and which is associable with a sliding guide (106) in a mobile manner in translation along the sliding direction (A) of a door or window wing (102), an attachment body (17a, 17b) to the wing (102) which is fixable to its lower crossbar (104) and which is associated with the support body (14a, 14b) in a mobile manner on a plane parallel to the lying plane of the wing (102) with a relative combined translation motion along the sliding direction (A) and along a direction (B) orthogonal to it for lifting and lowering the wing (102) with respect to the support body (14a, 14b), in which the carriage (11a, 11b) has an end associable with a manoeuvring mechanism (12, 13) of the relative displacement of the attachment body (17a, 17b) with respect to the support body (14a, 14b), wherein the manoeuvring mechanism is activatable by a control handle (105) associable to the wing, the group being characterised in that the support body (14a, 14b) of the at least one carriage (11a, 11b) comprises a guide body (19a, 19b) of elastic means (20a, 20b) acting between the support body (14a, 14b) and a counter element (21a, 21b) associable with the lower crossbar (104) of the wing (102), in which the counter element (21a, 21b) is associated with the guide body (19a, 19b) in a mobile manner in translation along the sliding direction (A) and along a direction orthogonal to it (B).

IPC 8 full level  
**E05D 15/56** (2006.01)

CPC (source: EP)  
**E05D 15/565** (2013.01); **E05Y 2201/47** (2013.01); **E05Y 2800/00** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (search report)  
• [XAYI] WO 2009081240 A1 20090702 - GSG INT SPA [IT], et al  
• [IY] EP 1681418 A2 20060719 - SCHUECO INT KG [DE]  
• [Y] US 4404771 A 19830920 - MURASE YASUSHI [JP], et al

Cited by  
EP4095340A1; IT202100013568A1; ITUA20161648A1; CN115506671A; ITBO20120523A1; DE102015011292A1; EP3401484A1; US10597921B2; WO2020221782A1; WO2017158448A1; EP3344836B1

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 2535492 A1 20121219; EP 2535492 B1 20190424;** ES 2736953 T3 20200109; IT MI20111103 A1 20121218

DOCDB simple family (application)  
**EP 12172242 A 20120615;** ES 12172242 T 20120615; IT MI20111103 A 20110617