

Title (en)
END POSITION RETRACTION DEVICE AND END POSITION DAMPING DEVICE FOR A SLIDING WING

Title (de)
ENDLAGEEINZUGS- UND ENDLAGEDÄMPFUNGSVORRICHTUNG FÜR EINEN SCHIEBEFLÜGEL

Title (fr)
DISPOSITIF DE RÉTRACTION EN FIN DE COURSE ET DISPOSITIF D'AMORTISSEMENT DE FIN DE COURSE POUR OUVRANT COULISSANT

Publication
EP 3108081 A1 20161228 (DE)

Application
EP 15702416 A 20150123

Priority
• DE 202014001516 U 20140220
• EP 2015051360 W 20150123

Abstract (en)
[origin: WO2015124373A1] The invention relates to a final position retraction and damping device (1) for a slidable leaf as a sliding leaf or a slidable rising sliding leaf (2) of a window or a door, comprising an energy accumulator for retracting the sliding leaf (2) into the closed position and a damping element for braking the sliding leaf (2) before the sliding leaf arrives at the final and closed position, said energy accumulator and damping element being formed solely by a gas pressure spring (4). The final position retraction and damping device (1) is arranged so as to lie in a receiving groove (10) of a sliding leaf (2) in a covered manner, the gas pressure spring (4) being axially movable in the sliding direction (14) of the sliding leaf (2) by means of the rotational axis (13) of the gas pressure spring by means of the end (11) of the push rod (5) using a guiding pin (12) and being secured in a pivotal manner transversely to the sliding direction. A driver and control device (8) has two guide pins (12, 20) which are mutually spaced, said guide pins (12) being received by a bore (18). The guide pins (12, 20) are guided in a movable manner in a slotted guide (22) section (21) which runs in the sliding direction of the sliding leaf (2). A curved end portion (23) is formed so as to face away from the frame (3) in extension of the slotted guide (22) on the side oriented towards the gas pressure spring (4), and the driver and control device (8) assumes a disengaged position of the driver (9) and forms the locked position of the energy accumulator when at least the guide pin (12) engages into the curved end portion (23).

IPC 8 full level
E05F 5/00 (2006.01); **E05F 1/16** (2006.01)

CPC (source: EP KR RU)
E05F 1/16 (2013.01 - EP KR RU); **E05F 5/003** (2013.01 - EP KR RU); **E05Y 2201/478** (2013.01 - EP KR); **E05Y 2600/46** (2013.01 - EP); **E05Y 2800/24** (2013.01 - EP KR)

Cited by
US2018371815A1; US10597923B2

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)
DE 202014001516 U1 20140321; CN 105874140 A 20160817; CN 105874140 B 20170714; EP 3108081 A1 20161228; EP 3108081 B1 20180221; ES 2662175 T3 20180405; KR 20160124209 A 20161026; PL 3108081 T3 20180731; RU 2016122915 A 20171212; RU 2016122915 A3 20180619; RU 2666457 C2 20180907; WO 2015124373 A1 20150827

DOCDB simple family (application)
DE 202014001516 U 20140220; CN 201580003636 A 20150123; EP 15702416 A 20150123; EP 2015051360 W 20150123; ES 15702416 T 20150123; KR 20167025919 A 20150123; PL 15702416 T 20150123; RU 2016122915 A 20150123