

Title (en)
OPENING DEVICE FOR A WING OF A WINDOW, DOOR OR THE LIKE

Publication
EP 0275359 B1 19901114 (DE)

Application
EP 87112946 A 19870904

Priority
DE 3643965 A 19861222

Abstract (en)
[origin: US4829710A] A disengaging device which is constructionally simple and operationally reliable for a wing of a window, door or the like which is required to take up a configuration parallel and disengaged from a stationary frame in order to be slidable horizontally for opening and closing. The wing is connected to the frame with upper and lower swingout arms in pairs. The lower swingout arms are each pivotally mounted at the lower transverse wing bar at one end and to a traveling carriage at the other end. A releasable blocking device is provided for the lower swing out arms which is activated when they are in the disengaged and stable parallel position. The blocking device is activated through a control arm associated with the lower traveling carriages. The control arm can be brought into and out of operative connection with a thrust bearing located on the stationary frame. The control arm is mounted on the traveling carriage and limited to basically horizontal planar motion in a limitedly swivelable manner. It is configured as a two armed lever. At the free end of the first lever arm, which runs and extends in the direction in which the wing is closed, a locking link is provided. At the free end of the other lever arm, a connection lashing is articulated. An additional arm is pivoted to the swingout arm at one end and at the other end engages by means of a pinion in a swivelable and movable manner in a guide slot formed in a bearing surface in the wing. At the end of the guide slot, an uptake notch is provided which accepts the pinion of the additional arm when the device is in the parallel stop position. This connection lashing is connected in a swivelable manner to the additional arm, the connection being made between its joint with the swingout arm and the pinion end, thereby coupling its motion with that of the control arm 23.

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IPC 8 full level
E05D 15/10 (2006.01); **E05D 15/58** (2006.01)

CPC (source: EP US)
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Cited by
CN104379861A; WO9119070A1; EP1959080B1; EP3216958B1

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US 4829710 A 19890516; AT E58412 T1 19901115; DE 3643965 C1 19880211; DE 3766239 D1 19901220; DK 586787 A 19880623; DK 586787 D0 19871110; EP 0275359 A1 19880727; EP 0275359 B1 19901114; FI 82526 B 19901130; FI 82526 C 19910311; FI 875262 A0 19871127; FI 875262 A 19880623; NO 874648 D0 19871109; NO 874648 L 19880623

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US 13484187 A 19871218; AT 87112946 T 19870904; DE 3643965 A 19861222; DE 3766239 T 19870904; DK 586787 A 19871110; EP 87112946 A 19870904; FI 875262 A 19871127; NO 874648 A 19871109