

Title (en)  
ATTACHMENT DEVICE FOR FITTING, AND FITTING

Title (de)  
BEFESTIGUNGSVORRICHTUNG FÜR FLÜGEL SOWIE FLÜGEL

Title (fr)  
DISPOSITIF DE FIXATION POUR OUVRANT ET OUVRANT

Publication  
**EP 3882423 A1 20210922 (EN)**

Application  
**EP 20216826 A 20201223**

Priority  
JP 2020046974 A 20200317

Abstract (en)  
Provided is an attachment device (30) for a fitting. The attachment device (30) is configured to be openable relative to a frame body (10) with a vertical open axis center (C1) as a center, together with a sash (20) including an action member (3) acting with an operation of a handle (4) when the action member (3) is moved from a lock position to an open position. The attachment device (30) includes a device main body (31) that is attached to a lower rail (23) of the sash (20), an input member (50) that is movably provided relative to the device main body (31) and is linked to the action member (3), a watertightness ensuring member (70) that is provided in the device main body (31) to be movable along a vertical direction of the sash (20), the watertightness ensuring member (70) being configured to hold a watertightness member (71), and an linking mechanism configured to link the input member (50) to the watertightness ensuring member (70) to move the watertightness ensuring member (70) relative to the device main body (31) through movement of the input member (50). The linking mechanism is configured to: move the watertightness ensuring member (70) downward when the action member (3) is arranged at the lock position, and move the watertightness ensuring member (70) upward when the action member (3) is arranged at the open position.

IPC 8 full level  
**E05C 9/04** (2006.01); **E05C 17/44** (2006.01); **E05D 15/52** (2006.01); **E06B 3/22** (2006.01); **E06B 3/34** (2006.01); **E06B 7/20** (2006.01)

CPC (source: CN EP)  
**E05C 9/041** (2013.01 - EP); **E05C 17/446** (2013.01 - EP); **E05D 15/5205** (2013.01 - EP); **E06B 1/325** (2013.01 - EP); **E06B 3/222** (2013.01 - EP); **E06B 3/341** (2013.01 - EP); **E06B 3/5409** (2013.01 - EP); **E06B 3/5821** (2013.01 - EP); **E06B 3/5842** (2013.01 - EP); **E06B 3/66** (2013.01 - EP); **E06B 7/16** (2013.01 - CN); **E06B 7/28** (2013.01 - CN); **E05Y 2800/12** (2013.01 - EP); **E05Y 2900/148** (2013.01 - EP); **E06B 7/2303** (2013.01 - EP); **E06B 7/2307** (2013.01 - EP)

Citation (applicant)  
JP 2017203341 A 20171116 - YKK ARCHITECTURAL

Citation (search report)  
• [XA] EP 3550102 A2 20191009 - EDS ELECTRIC DRIVE SOLUTION GMBH & CO KG [DE]  
• [X] FR 2660692 A1 19911011 - ROTO FRANCK AG [DE]  
• [X] US 2017260799 A1 20170914 - SILLER PAUL T [US], et al  
• [X] DE 29720978 U1 19980312 - ERNST KELLER GMBH & CO KG [DE]  
• [X] US 2009077895 A1 20090326 - TSHAI ADI [US]

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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**EP 20216826 A 20201223**; CN 202011547690 A 20201224; JP 2020046974 A 20200317