

Title (en)

ASSEMBLY FOR A WINDOW REGULATOR AND CORRESPONDING METHOD FOR MOUNTING THE PULLEY OF SAID WINDOW REGULATOR TO THE PLASTIC RAIL

Title (de)

ANORDNUNG FÜR EINEN FENSTERHEBER UND ENTSPRECHENDES VERFAHREN ZUR MONTAGE DER RIEMENSCHIBE DES FENSTERHEBERS MIT DER PLASTIKSCHIENE

Title (fr)

ENSEMBLE POUR RÉGULATEUR DE FENÊTRE ET PROCÉDÉ DE MONTAGE CORRESPONDANT DE LA POULIE DUDIT RÉGULATEUR DE FENÊTRE SUR LE RAIL EN PLASTIQUE

Publication

**EP 3643864 A1 20200429 (EN)**

Application

**EP 18382753 A 20181023**

Priority

EP 18382753 A 20181023

Abstract (en)

The assembly comprises a pulley (2), a plastic rail (1) and a bolt (3) for fixing the pulley (2) to the plastic rail (1) in an axial direction but allowing the rotation of the pulley (2) around the bolt (3). The bolt (3) comprises a foot (34), a shank (32), a shoulder (33), an annular groove (35), and a head (31). The assembly further comprises a metal sheet (4) with a central hole (41), such that when inserting the metal sheet (4) through the foot (34) of the bolt (3), which has been previously introduced in a through hole (11) of the plastic rail (1), the metal sheet (4) contacts partially with an support base (331) of the shoulder and partially with the plastic rail (1) such that when the metal sheet (4) is axially compressed against the support base (331), the diameter of the hole (41) of the metal sheet (4) becomes smaller than the diameter of the foot (34) and gets in the annular groove (35) of the bolt (3). The assembly further comprising a recess (12) in a second side of the plastic rail (1) for housing the metal sheet (4), the internal shape of the recess (12) being a non-circular shape to stop the metal sheet (4) from rotating around the bolt (3). The bolt comprises a threaded axial hole (341) for fixing the assembly to a metallic structure (6) by means of a screw (5).

IPC 8 full level

**E05F 11/48** (2006.01)

CPC (source: EP)

**E05F 11/483** (2013.01); **E05Y 2201/668** (2013.01); **E05Y 2201/684** (2013.01); **E05Y 2600/506** (2013.01); **E05Y 2600/62** (2013.01); **E05Y 2600/626** (2013.01); **E05Y 2600/63** (2013.01); **E05Y 2800/465** (2013.01); **E05Y 2800/674** (2013.01); **E05Y 2800/676** (2013.01); **E05Y 2900/55** (2013.01)

Citation (applicant)

EP 1078170 B1 20030122 - BAS COMPONENTS LTD [GB]

Citation (search report)

- [A] EP 2749723 A2 20140702 - AISIN SEIKI [JP]
- [A] EP 1528206 A2 20050504 - DAUMAL CASTELLON MELCHOR [ES]
- [AD] EP 1078170 B1 20030122 - BAS COMPONENTS LTD [GB]

Designated contracting state (EPC)

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BA ME

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