

Title (en)
Sliding door assembly

Title (de)
Schiebetür-Anordnung

Title (fr)
Système de porte coulissante

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Application
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Abstract (en)

A sliding door assembly comprises a sliding door, a track (100) underneath the sliding door, and a roller assembly (1). The roller assembly (1) comprises:- a bracket (3) attached to the door at or near the bottom of the door, the bracket (3) having a generally planar body portion (24); a roller mounting member (5) slidably seated in said bracket (3), the roller mounting member (5) having first and second side walls (76, 78) extending generally parallel to the plane of said bracket body portion (24); and a roller (7) rotatably mounted on said roller mounting member (5) for travel along the track (100). The roller (7) is disposed between said first and second side walls (76, 78) and rotates about an axis perpendicular to the plane of the bracket body portion (24). The roller (7) has a rim (7a) and a median plane generally parallel to the plane of the bracket body portion (24). A vertically and rotatably displaceable anti-jump member (9) is engageable with the track (100) to prevent the roller (7) from derailing. The anti-jump member (9) comprises a handle (91) adjacent an upper end of said anti-jump member (9), an elongate shaft (93) extending downwardly from the handle (91), and an enlarged track engagement portion (95) at a lower end of the anti-jump member (9). The anti-jump member (9) is disposed with the shaft (93) lying in the median plane of the roller (7) and adjacent the roller rim (7a). The anti-jump member (9) is carried by the roller mounting member (5), for vertical displacement between a lowered position wherein said engagement portion (95) can engage and disengage the track (100), and a raised position wherein said engagement portion (95) is spaced upwardly from said track (100), and for rotative displacement in the lowered position. The roller (7) comprises a wheel (7 @) having a circular central portion forming said rim (7a) and flanked by two co-axial circular side portions (7b, 7c) of smaller diameter than said central portion (7a). The track (100) is formed with two shoulders (204, 206) on either side of a central cavity (208), the two shoulders (204, 206) being situated at the top of the track (100). The roller (7) runs on the track (100) by virtue of the two side portions (7b, 7c) thereof running on the two shoulders (204, 206). The open top of the central cavity (208) forms a slot, level with the two shoulders (204, 206), and the central cavity (208) widens out below the two, overhanging, shoulders (204, 206). The central portion of the roller (7) extends through the slot and below the level of the two shoulders (204, 206) into the central cavity (208). The anti-jump member (9), when lowered, is selectively rotatable to an operative position and to an inoperative position such that, in the operative position of the anti-jump member (9), the shoulders (204, 206) of the track (100) overhang parts of said track engagement portion (95), so that the track engagement portion (95) cannot be withdrawn from the track (100), and such that, in the inoperative position of the anti-jump member (9), the shoulders (204, 206) of the track (100) overhang no part of said track engagement portion (95), so that the track engagement portion (95) can be displaced vertically, to be selectively inserted into or withdrawn from the track (100) through the slot. The door is able to slide, supported and guided on the track (100) by the roller assembly (1), with the anti-jump member (9) in any of said raised and lowered positions. The roller assembly (1) is thus restrained from jumping off the track (100) with the anti-jump member (9) lowered and rotated to its operative position. <IMAGE>

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