

Title (en)  
Suspension device for a sliding door.

Title (de)  
Aufhängevorrichtung für eine Schiebetür.

Title (fr)  
Dispositif de suspension d'une porte coulissante.

Publication  
**EP 0012453 A1 19800625 (FR)**

Application  
**EP 79200248 A 19790521**

Priority  
CH 1244578 A 19781206

Abstract (en)  
1. Suspension device for a sliding door adapted to be closed by its inherent weight, notably for refrigerating installations, which comprises at least two suspension links (4, 5) pivoted to the door (1) about a horizontal pin (50, 51) and connected to sliding means consisting of a plurality of rollers (7, 8, 9, 10, 11) having peripheral grooves (41) and of a cylindrical bar (6) for guiding the sliding movement of the door parallel to its main plane, the separation of the door from its fixed frame being provided by at least one roller (19, 20) carried by the door (1) and adapted to cooperate with a ramp (21, 22) followed by a guide-path (23, 24), characterized in that the grooved rollers (7, 8, 9, 10, 11) are secured by means of substantially horizontal axle-pins (32) to the door top, that the suspension links (4, 5) are rigidly connected to said cylindrical bar (6) through a bent portion of each link, and that the grooved rollers (7, 8, 9, 10, 11) support and hold said cylindrical bar (6) by means of their grooves (41) in which the bar (6) is movable not only for translation but also for rotation about its axis.

Abstract (fr)  
Le dispositif comprend des biellettes de suspension (5) articulées à la porte (1) autour d'un axe horizontal (49) et reliées rigidement à une barre cylindrique (6) pouvant se déplacer en translation et en rotation sur des galets (9) fixés au-dessus de la porte. Le déraillement de la barre (6) est empêché par au moins un galet de retenue (14). La barre cylindrique est de préférence constituée par un tube (6) renforcé par un tube carré (59). Les biellettes sont en deux parties (42, 44) susceptibles de coulisser l'une dans l'autre en comprimant un ressort amortisseur (48). Le dispositif comprend un galet (19) coopérant avec une rampe pour écarter la porte de son cadre de manière connue en soi.

IPC 1-7  
**E05D 15/56**; **E05D 15/10**

IPC 8 full level  
**E05D 15/06** (2006.01); **E05D 15/10** (2006.01); **E05D 15/56** (2006.01)

CPC (source: EP)  
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Citation (applicant)  
• CH 581250 A5 19761029 - DISERENS PIERRE  
• DE 2151063 A1 19730419 - GABLER MARTIN  
• CH 557466 A 19741231 - DISERENS PIERRE

Cited by  
CN112145007A; ES2161590A1; EP2273053A1; US11008775B2; US2010126073A1; US7878575B1; GB2326662A; GB2326662B

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