

Title (en)  
DOOR SUSPENSION ARRANGEMENT

Publication  
**EP 0187337 B1 19900418 (DE)**

Application  
**EP 85116224 A 19851219**

Priority  
• DE 3446809 A 19841221  
• DE 3511776 A 19850330

Abstract (en)  
[origin: EP0187337A2] 1. A hinge consisting of a frame housing (106, 106'), which may be installed in the frame (1, 1'), and of a hinge loop (4) to be fixed to the rear narrow side (8) of the door (10) by means of a fixing plate (7), the hinge loop bearing a bush (3) to be inserted into the frame housing (106, 106') being joined to the fixing plate (7) by a web (9), which penetrates a recess (12') in the frame housing (106, 106') lying on the side facing the fixing plate (7) in the closed position, characterised in that the web (9) is bent back at least 90 degrees, in that the bearing bush (3) of the hinge loop (4) is provided with axially movable inserts (24) with ball bearings (22), these inserts being displaceable by means of a central bracing device (19), and the ball bearings (22) being adjustable between a release position, involving being drawn into the bearing bush (3) and a locking position, involving being partly engaged in adjacent bearing cups of the frame housing (106, 106'), and in that the frame housing (106, 106') is formed as a substantially cuboid box housing, whose top and bottom walls (107, 108) are provided with recesses (5), into which cup inserts (111), which are sprung by means of cup springs (113) so as to be axially displaceable, are inserted, the cup inserts (111) having bearing cups (112) for the ball bearings (22).

IPC 1-7  
**E05D 5/06**; **E05D 7/10**

IPC 8 full level  
**E05D 5/06** (2006.01); **E05D 7/10** (2006.01); **E05D 5/02** (2006.01)

CPC (source: EP)  
**E05D 5/06** (2013.01); **E05D 7/1005** (2013.01); **E05D 5/0215** (2013.01); **E05D 5/023** (2013.01); **E05D 2003/027** (2013.01); **E05D 2005/067** (2013.01); **E05D 2007/1033** (2013.01); **E05Y 2600/41** (2013.01); **E05Y 2900/132** (2013.01)

Citation (examination)  
• DE 2248724 C3 19790906  
• US 2133663 A 19381018 - JOHNSON RALPH W, et al

Cited by  
EP0947654A1; EP0789124A3; DE10009630C2; GB2580951A; GB2580951B; EP1130207A2; WO9809044A1

Designated contracting state (EPC)  
AT CH DE FR LI NL

DOCDB simple family (publication)  
**EP 0187337 A2 19860716**; **EP 0187337 A3 19870204**; **EP 0187337 B1 19900418**; DE 3577221 D1 19900523

DOCDB simple family (application)  
**EP 85116224 A 19851219**; DE 3577221 T 19851219