

Title (en)

Lift-off door hinge for vehicles.

Title (de)

Aushängbares Kraftwagentürscharnier

Title (fr)

Charnière pour porte de véhicule dégonflable

Publication

EP 0884441 B1 20010801 (DE)

Application

EP 98109403 A 19980523

Priority

DE 19724202 A 19970609

Abstract (en)

[origin: DE19724202C1] The hinge halves (1,2) are fixed respectively to the door and door-post, the pin (3) being held in a bearing (4) requiring no maintenance in the eye (6) of the first half so that it can turn freely but not slide, and also turning in the eye (12) of the other half when assembled. A flange (16) on the pin fits between the halves and has a cone face towards the detachable one and fitting in a mating taper bore in the latter. An externally-threaded extension (17) on the pin is shorter than the distance between two cone faces (13,21) in the bore (14) of the second half. The spigot (22) is joined to the cone-portion (19) of a nut (20) working against the cone face (21) in the bore (14), and fits in the annular space (23) between the bore (14) and the extension (17) on the pin. The external diameter of the spigot (22), which is tapered can be the same as the clear width of the cylindrical portion of the bore (14) while its length can be at least one-third of that of the bore.

IPC 1-7

E05D 5/12; **E05D 7/10**; **F16B 37/00**

IPC 8 full level

E05D 7/10 (2006.01); **B60J 5/00** (2006.01); **B60J 5/04** (2006.01); **E05D 3/02** (2006.01); **E05D 5/10** (2006.01); **E05D 5/12** (2006.01); **E05D 5/14** (2006.01); **F16B 37/00** (2006.01)

CPC (source: EP US)

E05D 5/121 (2013.01 - EP US); **E05D 5/16** (2013.01 - EP US); **E05D 7/1044** (2013.01 - EP US); **E05Y 2800/26** (2013.01 - EP US); **E05Y 2900/531** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT PT SE

DOCDB simple family (publication)

DE 19724202 C1 19980903; AR 014878 A1 20010411; BR 9801776 A 19991005; CN 1095020 C 20021127; CN 1207445 A 19990210; DE 59801110 D1 20010906; EP 0884441 A2 19981216; EP 0884441 A3 20000405; EP 0884441 B1 20010801; ES 2162368 T3 20011216; JP 3046575 B2 20000529; JP H11101048 A 19990413; PT 884441 E 20020130; US 5987703 A 19991123

DOCDB simple family (application)

DE 19724202 A 19970609; AR P980102684 A 19980605; BR 9801776 A 19980604; CN 98102242 A 19980609; DE 59801110 T 19980523; EP 98109403 A 19980523; ES 98109403 T 19980523; JP 15481698 A 19980603; PT 98109403 T 19980523; US 9430498 A 19980609