

Title (en)  
Lift-off door hinge for vehicles.

Title (de)  
Aushängbares Kraftwagentürscharnier

Title (fr)  
Charnière pour porte de véhicule dégonflable

Publication  
**EP 0884441 A3 20000405 (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)

Citation (search report)

- [A] DE 29704055 U1 19970507 - SCHARWAECHTER GMBH CO KG [DE]
- [A] DE 3405082 A1 19850814 - SCHARWAECHTER GMBH CO KG [DE]

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DOCDB simple family (publication)  
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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