

Title (en)  
IMPROVED HINGE WITH REMOVABLE PIN

Title (de)  
VERBESSERTES SCHARNIER MIT AUSNEHMBAREM ZAPFEN

Title (fr)  
CHARNIERE AMELIOREE A AXE AMOVIBLE

Publication  
**EP 0972126 A1 20000119 (EN)**

Application  
**EP 99902482 A 19990129**

Priority  
• CA 9900082 W 19990129  
• CA 2228539 A 19980203

Abstract (en)  
[origin: WO9940281A1] A low cost, double shear hinge (3) with a removable hinge pin (7) creates a zero-clearance joint in both axial and radial directions. Bushings (1, 2) are fitted into circular openings (23, 24) in the door side portion of the hinge (3). A partially internally threaded tube (4), flanged at the following end, is inserted through the bushings and swaged over the bushing at its leading end (5). After the body side portion of the hinge with corresponding circular openings (25, 27) is aligned with the door side portion, a hinge pin (7) with a wider threaded following section (8) and a narrower threaded leading section (9) of identical pitch is rotated through the openings to draw the structure together.

IPC 1-7  
**E05D 5/12**

IPC 8 full level  
**E05D 5/12** (2006.01); **E05D 5/10** (2006.01); **E05D 5/14** (2006.01)

CPC (source: EP)  
**E05D 5/121** (2013.01); **E05D 5/10** (2013.01); **E05D 5/14** (2013.01); **E05D 2005/102** (2013.01); **E05Y 2900/531** (2013.01)

Cited by  
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Designated contracting state (EPC)  
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**WO 9940281 A1 19990812**; AT E216021 T1 20020415; CA 2228539 A1 19990803; CA 2228539 C 20031118; DE 69901207 D1 20020516; DE 69901207 T2 20020808; EP 0972126 A1 20000119; EP 0972126 B1 20020410; ES 2175933 T3 20021116

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