

Title (en)  
ORRICHTUNG

Title (de)  
VORRICHTUNG ZUM ZENTRIEREN UND SPANNEN VON BLECHEN ODER MECHANISCHEN WERKSTÜCKEN

Title (fr)  
DISPOSITIF DE CENTRAGE ET DE BRIDAGE D'UN ENSEMBLE DE TOLERIE OUD'UNE PIECE MECANIQUE

Publication  
**EP 1098737 A1 20010516 (FR)**

Application  
**EP 99932912 A 19990719**

Priority  
• FR 9901765 W 19990719  
• FR 9809222 A 19980720

Abstract (en)  
[origin: US6648316B1] The device includes a hollow pilot equipped with at least two retractable hooks and driven by a piston provided with a groove, the whole assembly being mounted on a supporting nosepiece. The piston is locked in clamping position by a three-point system actuated by a pneumatic cylinder. The device assembly is integrated in a housing. The device is designed to equip fixed or mobile posts for assembling vehicles, or clamping arms.

IPC 1-7  
**B25B 5/12**

IPC 8 full level  
**B23Q 3/06** (2006.01); **B25B 5/12** (2006.01)

CPC (source: EP US)  
**B25B 5/12** (2013.01 - EP US); **B25B 5/122** (2013.01 - EP US)

Cited by  
CN105436946A

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 6648316 B1 20031118**; AT E225234 T1 20021015; AU 4913099 A 20000214; DE 69903316 D1 20021107; DE 69903316 T2 20030618; EP 1098737 A1 20010516; EP 1098737 B1 20021002; ES 2184477 T3 20030401; FR 2781176 A1 20000121; FR 2781176 B1 20000901; JP 2002521218 A 20020716; PT 1098737 E 20030228; WO 0005035 A1 20000203

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**US 74419301 A 20010122**; AT 99932912 T 19990719; AU 4913099 A 19990719; DE 69903316 T 19990719; EP 99932912 A 19990719; ES 99932912 T 19990719; FR 9809222 A 19980720; FR 9901765 W 19990719; JP 2000561014 A 19990719; PT 99932912 T 19990719