

Title (en)  
Hydropneumatic blind riveter

Title (de)  
Pneumatisch-hydraulisches Blindnietgerät

Title (fr)  
Organe hydropneumatique de rivetage aveugle

Publication  
**EP 1132160 B1 20031029 (DE)**

Application  
**EP 01105125 A 20010302**

Priority  
DE 10011340 A 20000310

Abstract (en)  
[origin: EP1132160A1] Pneumatic, hydraulic blind riveting device comprises a tension device arranged in a housing and having a cullet which is connected to a hydraulic thrust piston (14) and surrounds chuck jaws on which a pressure bushing arrangement (30, 31) interacting with a resetting piston lies (34). A pressure space (44) arranged between the resetting piston and the thrust piston is loaded by a pressure controlled by a control device (4). Preferred Features: The pressure bushing arrangement is rigid in the pressure direction between the resetting piston and the chuck jaws.

IPC 1-7  
**B21J 15/06**

IPC 8 full level  
**B21J 15/06** (2006.01); **B21J 15/10** (2006.01); **B21J 15/16** (2006.01); **B21J 15/20** (2006.01); **B21J 15/22** (2006.01)

CPC (source: EP US)  
**B21J 15/105** (2013.01 - EP US); **B21J 15/22** (2013.01 - EP US); **B21J 15/326** (2013.01 - EP US); **Y10T 29/5373** (2015.01 - EP US); **Y10T 29/53739** (2015.01 - EP US); **Y10T 29/53748** (2015.01 - EP US)

Cited by  
CN110340269A; WO2008099132A1; WO2024002428A1; US7926157B2; WO2007107751A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1132160 A1 20010912; EP 1132160 B1 20031029**; AT E252955 T1 20031115; CZ 2001790 A3 20011017; CZ 295093 B6 20050518; DE 10011340 A1 20010920; DE 50100850 D1 20031204; DK 1132160 T3 20040223; ES 2208480 T3 20040616; HU 0100986 D0 20010528; HU 223033 B1 20040301; HU P0100986 A2 20011228; HU P0100986 A3 20030128; JP 2001259779 A 20010925; JP 3515533 B2 20040405; PL 194111 B1 20070430; PL 345965 A1 20010924; RU 2249492 C2 20050410; US 2001020322 A1 20010913; US 6367139 B2 20020409

DOCDB simple family (application)  
**EP 01105125 A 20010302**; AT 01105125 T 20010302; CZ 2001790 A 20010302; DE 10011340 A 20000310; DE 50100850 T 20010302; DK 01105125 T 20010302; ES 01105125 T 20010302; HU P0100986 A 20010307; JP 2001068762 A 20010312; PL 34596501 A 20010220; RU 2001106176 A 20010307; US 79851701 A 20010302