

Title (en)

PRECISION BLANKING PRESS WITH KNIFE-EDGED RING AND COUNTER CYLINDER

Title (de)

FEINSCHNEIDPRESSE MIT RINGZACKEN- UND GEGENHALTERZYLINDER

Title (fr)

PRESSE A DECOUPER DE PRECISION A CYLINDRE A DENTELURE ANNULAIRE ET A CYLINDRE ANTAGONISTE

Publication

**EP 0891235 A1 19990120 (DE)**

Application

**EP 97907241 A 19970327**

Priority

- DE 19612351 A 19960328
- IB 9700312 W 19970327

Abstract (en)

[origin: US6240818B1] The press slide of a hydraulically or mechanically driven precision blanking press is non-positively connected with a crosshead by means of columns. The knife-edged ring cylinder is integrated in the crosshead and the supporting force of the knife-edged ring cylinder is taken up by the slide. During a cutting stroke, there is no relative movement between the knife-edged ring cylinder with piston and the slide. The counter cylinder is located in the lower crosshead of the stand. During a cutting stroke, there is no relative movement between the counter cylinder and the workpiece in the tool. The working force of the main drive is not reduced by the pressing force of the knife-edged ring and counter cylinder.

IPC 1-7

**B21D 28/16**

IPC 8 full level

**B21D 28/16** (2006.01); **B21D 28/20** (2006.01); **B30B 1/32** (2006.01); **B30B 1/34** (2006.01); **B30B 15/00** (2006.01); **B30B 15/04** (2006.01)

CPC (source: EP KR US)

**B21D 28/16** (2013.01 - EP KR US); **B30B 1/26** (2013.01 - EP); **B30B 1/323** (2013.01 - EP US); **B30B 1/34** (2013.01 - EP US); **B30B 15/0035** (2013.01 - EP US); **B30B 15/045** (2013.01 - EP US); **Y10T 83/2153** (2015.04 - EP US); **Y10T 83/8858** (2015.04 - EP US); **Y10T 83/9423** (2015.04 - EP US)

Citation (search report)

See references of WO 9735675A1

Cited by

EP3115122A1; US10682782B2; EP3115190A1; US10479040B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**US 6240818 B1 20010605**; AT E251512 T1 20031015; CN 1219895 A 19990616; DE 19642635 A1 19971002; DE 59710835 D1 20031113; EP 0891235 A1 19990120; EP 0891235 B1 20031008; ES 2208880 T3 20040616; JP 2000507880 A 20000627; KR 20000005076 A 20000125; WO 9735675 A1 19971002

DOCDB simple family (application)

**US 15543498 A 19980925**; AT 97907241 T 19970327; CN 97194980 A 19970327; DE 19642635 A 19961016; DE 59710835 T 19970327; EP 97907241 A 19970327; ES 97907241 T 19970327; IB 9700312 W 19970327; JP 53419097 A 19970327; KR 19980707706 A 19980928