

Title (en)

Single shaft eccentric punch press with slide connected at four points

Title (de)

Einwellen-Vierpunkt-Stanzpresse

Title (fr)

Presse excentrique poinçonneuse à arbre unique et coulisseau avec quatre points de raccordement

Publication

**EP 0628403 B1 19960717 (DE)**

Application

**EP 93108969 A 19930604**

Priority

- EP 93108969 A 19930604
- SG 1996000659 A 19930604

Abstract (en)

[origin: EP0628403A1] The pressure columns (16, 17) are connected to the slide (3) via ball-and-socket joints (42-45). The sockets (44, 45) are situated inside the pressure columns (16, 17) and the balls (42, 43) are arranged above the slide (3), to which they are connected. This means that when the slide (3) is loaded in an excentric fashion, no bending moments are transferred to the pressure columns (16, 17). The entire underside of the slide (3) is available for accommodating connecting elements for a tool. <IMAGE>

IPC 1-7

**B30B 1/26**; **B30B 1/06**

IPC 8 full level

**B30B 1/06** (2006.01); **B30B 1/26** (2006.01); **B30B 15/06** (2006.01)

CPC (source: EP US)

**B30B 1/06** (2013.01 - EP US); **B30B 1/26** (2013.01 - EP US); **B30B 15/068** (2013.01 - EP US); **Y10T 83/8824** (2015.04 - EP US); **Y10T 83/8848** (2015.04 - EP US)

Cited by

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**EP 0628403 A1 19941214**; **EP 0628403 B1 19960717**; DE 59303264 D1 19960822; JP H07509663 A 19951026; SG 43760 A1 19971114; US 5531160 A 19960702; WO 9429100 A1 19941222

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