

Title (en)

Cambering device in bending presses

Title (de)

Wölbungsvorrichtung in Biegepressen

Title (fr)

Dispositif de cambrage dans des presses à plier

Publication

**EP 2682198 B1 20180620 (EN)**

Application

**EP 13163686 A 20130415**

Priority

IT TV20120125 A 20120706

Abstract (en)

[origin: EP2682198A1] An active cambering device (1) of bending presses comprising an upper beam (2) and a lower beam (3), the device comprising a pump (4, P1) adapted to load at least one accumulator (5, ACC), which is adapted to actuate the lower beam (3) by means of a proportional direction valve (6, V8).

IPC 8 full level

**B21D 5/02** (2006.01); **B30B 15/00** (2006.01)

CPC (source: EP)

**B21D 5/0272** (2013.01); **B30B 15/007** (2013.01)

Citation (opposition)

Opponent : Bystronic Laser AG

- US 3914975 A 19751028 - KAWANO SUSUMU
- US 6812693 B2 20041102 - HEINRICH HORST [DE], et al
- WO 02074463 A1 20020926 - BYSTRONIC LASER AG [CH], et al
- JP H10211522 A 19980811 - AMADA ENG CT CO LTD, et al
- EP 0540476 A1 19930505 - BEYELER MACHINES SA [CH]
- JP H05329549 A 19931214 - AMADA CO LTD, et al
- EP 1027178 B1 20020130 - GASPARINI LUCIANO [IT]
- HOLGER WATTER: "Hydraulik und Pneumatik", 2007, VIEWEG+TEUBNER, ISBN: 978-3-8348-0539-3, article "Speicher", pages: 147 - 149, XP055578939

Designated contracting state (EPC)

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