

Title (en)

HYDRAULIC DRAWING SYSTEM IN A SINGLE OR DOUBLE WORKING PRESS

Publication

EP 0401534 B1 19921202 (DE)

Application

EP 90108771 A 19900510

Priority

- DE 3915794 A 19890513
- DE 3915795 A 19890513

Abstract (en)

[origin: EP0401534A1] The present invention relates to a hydraulic drawing system in the press table of a single- or double-acting press, the drawing ram (7) being mechanically driven and the drawing system being suitable for two different operating modes selectable upon tool change, more specifically for operation with a tool (3) situated in the middle of the drawing station or with two tools arranged in parallel in the direction of material feed, the pressure-plate force being adjustable at each of the four corner points during the descent of the ram. The object of the invention is to simplify the switchover from operation with a central tool (3) to with two tools (3) per drawing station arranged in parallel in the material feed direction. In both operating modes, the counterforce applied during the descent of the ram is applied at each of the four corners of the pressure cheeks (9) via flexible pads. Adaptation to the individual operating modes is effected by connecting up or disconnecting the various pressure cylinders. <IMAGE>

IPC 1-7

B21D 24/02; **B21D 24/14**

IPC 8 full level

B21D 24/02 (2006.01); **B21D 24/14** (2006.01)

CPC (source: EP)

B21D 24/02 (2013.01); **B21D 24/14** (2013.01)

Cited by

US5241849A; DE112006000206B4; US5255552A; EP0865843A1; US5960665A; CN109127849A; EP0564977A1; US5357844A; US5138857A; US8166791B2; EP0402800B1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0401534 A1 19901212; **EP 0401534 B1 19921202**; DE 3915795 C1 19910131; DE 59000532 D1 19930114; ES 2036072 T3 19930501

DOCDB simple family (application)

EP 90108771 A 19900510; DE 3915795 A 19890513; DE 59000532 T 19900510; ES 90108771 T 19900510