

Title (en)

CUTTING AND DEFORMING PRESS WITH A HYDRO-MECHANICAL TOGGLE DRIVE

Publication

**EP 0283532 B1 19910605 (DE)**

Application

**EP 87104278 A 19870324**

Priority

EP 87104278 A 19870324

Abstract (en)

[origin: EP0283532A1] The invention relates to a cutting and deforming press with a hydro-mechanical toggle drive, in which the driving cylinder (3) for the ram (2) is borne by a bridge structure (5) which is arranged in the stand between lateral guides and which is connected to said guides by threaded spindles (4) or other height-adjustable means. The bridge structure (5) forms the connection between the bearing spindles (6), which are oriented symmetrically to the centre of the press on both sides, and the central guide (7) for the piston rod (3.1), which is limited by the hinge point (10.4). The two bearing spindles (6), together with further, adjoining hinge points (8 and 9), form an intrinsically rigid, swivellable triangle (10) whose hinge point (9), which is oriented towards the centre of the ram (2), in each case leads, via at least two coupled driving-lever parts (10.1 and 10.2), to the two hinge points (10.3), which are arranged in curves (7.1) and are connected in turn to the hinge point (10.4) which is moveable in the central guide (7). The guide curves (7.1) convert the unnecessary but present force into speed in the lower region. <IMAGE>

IPC 1-7

**B30B 1/16**

IPC 8 full level

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