

Title (en)  
PRESS INSTALLATION

Publication  
**EP 0581008 A3 19940511 (DE)**

Application  
**EP 93109676 A 19930617**

Priority  
DE 4221147 A 19920627

Abstract (en)

[origin: EP0581008A2] In order to bring about a considerable decrease in investment and operating costs in the case of a press installation having a press frame composed of press stands (2), a press table (5) and a headpiece (1), the press parts being rigidly connected to one another by means of clamping tie elements (4); having pusher rods (7) for deformation; and having a transfer device (14, 15, 16) for transferring the workpieces between work stages (13, 6) and drive means (19, 20) for imparting movement to the pusher rod (7) and the transfer device (14, 15, 16), a combination of the following characteristics is proposed: - a pusher rod (7) extends over a plurality of work stages (6). - The pusher rod (7) is articulated without centres of pressure, and therefore directly, at four points (18) by means of connecting rods (17). - The centres of the two articulation points (18) in each case of one side of the pusher rod and of two clamping tie elements (4) which are situated opposite one another in the press frame are arranged on a common line (21) which is aligned horizontally and perpendicularly to the pressing path (35). - Inner pusher rods (8) are mounted so as to be vertically displaceable in the number of work stages (6) via guides (24), in the pusher rod (7) which takes the form of an outer pusher rod. - Between each of the inner pusher rods (8) and the outer pusher rod (7) there is arranged in each case at least one overload protection device (25) having a pressure chamber (28) in a pressure cylinder (27) and a piston (29). - The pressure chamber (28) is preloaded with pressure via pipes (33) so as to load the piston (29) and therefore the inner pusher rod (8) vertically downwards, to permit operation of the pressing installation. <IMAGE>

IPC 1-7  
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IPC 8 full level  
**B21D 35/00** (2006.01); **B21D 37/08** (2006.01); **B21D 43/05** (2006.01); **B30B 1/26** (2006.01); **B30B 15/00** (2006.01); **B30B 15/04** (2006.01); **B30B 15/06** (2006.01); **B30B 15/28** (2006.01)

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Citation (search report)

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