Title (en)

METHOD AND APPARATUS FOR REDUCING THE PRESS LOAD OF A CUTTING PRESS WITH POSITIVE STOPS

Publication

EP 0353479 B1 19921209 (DE)

Application

EP 89112232 A 19890705

Priority

CH 287088 A 19880728

Abstract (en)

[origin: EP0353479A1] The stroke of the ram (2) is limited by at least one positive stop (5, 6). At least one positive stop (5, 6) has at least one sensor (15) which determines the resilient deformation of the respective stop (5, 6) resulting from the impact force. The output signals of the respective sensor (15) are fed to the control device for the ram height adjustment. This ram height adjustment is carried out by a servomotor (9) and adjoining gear train (10). By means of the positive stops (5, 6), the bottom dead centre of the ram (2) relative to the lower tool part can be set according to the requirements. In this way, it is also possible to define exactly the plunging depth of the upper tool part (3) with the stampers (8) into the lower tool part (4), and it can also be zero or less. The ram height, which can be corrected depending on the impact force on the positive stops (5, 6), reduces the press load, which would otherwise increase greatly in line with the increasing number of strokes. <IMAGE>

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B30B 15/00; B30B 15/14

IPC 8 full level

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CPC (source: EP US)

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