

Title (en)  
PRESS DRIVE

Publication  
**EP 0024699 B1 19830914 (DE)**

Application  
**EP 80104991 A 19800821**

Priority  
DE 2934286 A 19790824

Abstract (en)  
[origin: ES8103686A1] A press drive with a central cam shaft actively connected through a connecting rod with a slide guided in a linear guide. Side bars are symmetrically articulated with respect to each other on the slide. Mass balancing weights are driven in opposed directions corresponding to reciprocating masses of the press, with the weights being connected with the slide by other linkages. Pairs of toggle joint linkages are disposed symmetrically with respect to the cam shaft. The pairs of toggle joint linkages include a first almost horizontally disposed toggle joint linkage that is articulated on the respective side bars and presents a bearing point on the press frame. A second almost vertically disposed toggle joint linkage that is connected with the first toggle joint linkage and is articulated so as to be guided by the press frame on the mass balancing weight. A third almost vertically disposed toggle joint linkage is articulated on the punch through a transmission bar with the first and second toggle joint linkages and is braced in a direction of motion of the punch on the press frame.

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**B30B 1/10**; **B30B 15/00**

IPC 8 full level  
**B30B 1/14** (2006.01); **B30B 1/10** (2006.01); **B30B 15/00** (2006.01); **B30B 15/06** (2006.01)

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Citation (examination)

- FR 2274835 A1 19760109 - WEINGARTEN AG MASCHF [DE]
- GB 2013562 A 19790815 - SCHULER GMBH L
- DE 839759 C 19520523

Cited by  
CN113119504A; EP0057741A1; WO2010088871A1

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**EP 0024699 A2 19810311**; **EP 0024699 A3 19810805**; **EP 0024699 B1 19830914**; AT E4633 T1 19830915; BR 8005261 A 19810304; DE 2934286 A1 19810312; DE 2934286 C2 19840614; ES 494444 A0 19810316; ES 8103686 A1 19810316; JP S5633198 A 19810403; US 4318325 A 19820309

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