

Title (en)
HYDRO-MECHANICAL PRESS

Publication
EP 0510506 A3 19930331 (DE)

Application
EP 92106507 A 19920415

Priority
DE 4112942 A 19910420

Abstract (en)
[origin: EP0510506A2] Hydro-mechanical press with a crank-driven outer ram (13) guided in the frame (1, 2, 3) and an inner ram (16) which is guided in the outer ram (13) and can be driven hydraulically relative to the outer ram (13), provision being made for at least one tool combination consisting of a tool fastened to the inner ram (16) and an opposing tool interacting with this tool and arranged in a fixed position. So that the hydraulically driven movements of the inner ram (16) relative to the outer ram (13) can be rapidly controlled or regulated in such a press, even during the crank-driven stroke of the outer ram (13), it is proposed to provide only single-acting cylinder/piston units (17, 18) for both directions of the relative movements symmetrically to the centre plane (II - II) of both rams (13, 16) in such a way that they are operatively arranged between the latter. <IMAGE>

IPC 1-7
B30B 1/26

IPC 8 full level
B30B 1/26 (2006.01); **B30B 15/00** (2006.01); **B30B 15/28** (2006.01)

CPC (source: EP)
B30B 1/265 (2013.01); **B30B 15/007** (2013.01); **B30B 15/284** (2013.01)

Citation (search report)
• [AD] DE 409075 C 19250131 - FRANK HENRY SMITH, et al
• [AD] DE 3147279 A1 19830609 - HATLAPA ROLF ING BUERO [DE]
• [AD] DE 675854 C 19390519 - BERLIN ERFURTER MASCHINENFABRI
• [A] SOVIET INVENTIONS ILLUSTRATED Section PQ, Week 8541, 22. November 1985 Derwent Publications Ltd., London, GB; Class P, AN 85-254581[41] & SU-A-1 146 207 (MACH CORRESPONDENSE) 23. März 1985
• [A] PATENT ABSTRACTS OF JAPAN vol. 7, no. 261 (M-257)(1406) 19. November 1983 & JP-A-58 141 898 (KOMATSU SEISAKUSHO K.K.)
• [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 299 (M-524)(2355) 11. Oktober 1986 & JP-A-61 111 729 (KURODA PRECISION IND. LTD.)

Cited by
ITBO20110146A1

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
EP 0510506 A2 19921028; EP 0510506 A3 19930331; EP 0510506 B1 19950222; DE 4112942 A1 19921022; DE 59201433 D1 19950330; ES 2069925 T3 19950516

DOCDB simple family (application)
EP 92106507 A 19920415; DE 4112942 A 19910420; DE 59201433 T 19920415; ES 92106507 T 19920415