

Title (en)

HYDRAULIC, PNEUMATIC, PNEUMATIC/HYDRAULIC OR COMBINED PNEUMATIC/EXPLOSION PRESS

Publication

EP 0128912 B1 19881019 (FR)

Application

EP 84900019 A 19831214

Priority

CH 740082 A 19821220

Abstract (en)

[origin: WO8402492A1] Press for manufacturing molded or pressed products, comprising a press tool (3) fixed at one end of a moving cylinder (2). Said moving cylinder (2) is coaxially mounted inside a fixed guiding cylinder (4) fixed and coaxially suspended inside a cylinder (5) forming the outer envelope of the press. The press has a moving wall (8) defining a first variable volume chamber, eight hydraulic jacks (11a-11h) with free differential pistons (12a-12h) arranged in crown about the central cylinder (2). The outer envelope (5) comprises a widening (23) provided with at least a bore (44) wherein are arranged explosion means to cause the displacement of the press tool (3) when the press is used as a combined pneumatic/explosion press. The press has reduced overall dimensions, and may be adapted to the manufacture of different articles at various working rates by simple and fast modifications.

IPC 1-7

B30B 1/32; **B30B 1/00**; **B30B 15/16**; **F15B 15/20**

IPC 8 full level

B30B 1/00 (2006.01); **B30B 1/32** (2006.01); **B30B 15/16** (2006.01); **F15B 11/032** (2006.01)

CPC (source: EP US)

B30B 1/002 (2013.01 - EP US); **B30B 1/007** (2013.01 - EP US); **B30B 1/32** (2013.01 - EP US); **B30B 15/16** (2013.01 - EP US); **F15B 11/0325** (2013.01 - EP US); **F15B 2015/208** (2013.01 - EP US); **F15B 2211/20538** (2013.01 - EP US); **F15B 2211/216** (2013.01 - EP US); **F15B 2211/7053** (2013.01 - EP US); **F15B 2211/775** (2013.01 - EP US); **Y10S 72/706** (2013.01 - EP US)

Cited by

US5010852A; US10105769B2

Designated contracting state (EPC)

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WO 8402492 A1 19840705; CA 1264980 A 19900130; CA 1264980 C 19900130; CH 652647 A5 19851129; DE 3378259 D1 19881124; EP 0128912 A1 19841227; EP 0128912 B1 19881019; US 4658629 A 19870421

DOCDB simple family (application)

CH 8300141 W 19831214; CA 443721 A 19831220; CH 740082 A 19821220; DE 3378259 T 19831214; EP 84900019 A 19831214; US 77086485 A 19850819