

Title (en)
PRESS WITH A DIRECTLY DRIVEN CRANK DRIVE

Title (de)
PRESSE MIT EINEM DIREKT ANGETRIEBENEN KURBELTRIEB

Title (fr)
PRESSE DOTÉE D'UN MÉCANISME BIELLE-MANIVELLE À ENTRAÎNEMENT DIRECT

Publication
EP 2496408 A1 20120912 (DE)

Application
EP 10781420 A 20101030

Priority
• DE 102009051876 A 20091104
• EP 2010006647 W 20101030

Abstract (en)
[origin: WO2011054485A1] The invention relates to a press (21) with at least one press frame (9), a platen mounted therein and a ram (5) driven by means of at least one crank drive (12), wherein an upper mould part (6) is arranged on the ram (5) and a lower mould part (7) is arranged on the press platen (8), wherein at least one crankshaft (1) with at least one crank pin (2) and at least one connecting rod (3) is arranged as the crank drive (12), and wherein at least one direct drive, driving the crankshaft (1) directly, is arranged as the motor (14) for driving the crankshaft (1). The object of the invention is to provide a press in which the input-side forces of the direct drive can be passed on on the output side with much less loading for the crankshaft, and at the same time the overall stiffness of the drive train is increased significantly and/or the overall length of the drive train is minimized. The invention consists in that, with at least one motor (14) arranged within a press (21) with at least two connecting rods (3) on at least one crankshaft (1), at least one motor (14) is arranged between the connecting rods (3).

IPC 8 full level
B30B 1/26 (2006.01)

CPC (source: EP US)
B30B 1/266 (2013.01 - EP US)

Citation (search report)
See references of WO 2011054485A1

Citation (examination)
• EP 2459364 A1 20120606 - DIEFFENBACHER GMBH MASCHINEN [DE]
• WO 2010009694 A2 20100128 - MUELLER WEINGARTEN MASCHF [DE], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102009051876 A1 20110505; BR 112012010310 A2 20160329; CN 102712157 A 20121003; EP 2496408 A1 20120912; JP 2013509998 A 20130321; RU 2012122789 A 20131210; US 2012266766 A1 20121025; WO 2011054485 A1 20110512

DOCDB simple family (application)
DE 102009051876 A 20091104; BR 112012010310 A 20101030; CN 201080050496 A 20101030; EP 10781420 A 20101030; EP 2010006647 W 20101030; JP 2012537318 A 20101030; RU 2012122789 A 20101030; US 201013505830 A 20101030