

Title (en)
HYDRAULIC PRESSING DEVICE

Title (de)
HYDRAULISCHES PRESSGERÄT

Title (fr)
DISPOSITIF DE PRESSAGE HYDRAULIQUE

Publication
EP 2448720 A1 20120509 (DE)

Application
EP 10727433 A 20100701

Priority
• EP 2010059356 W 20100701
• DE 102009031678 A 20090702
• DE 102009026273 A 20090729

Abstract (en)
[origin: WO2011000907A1] The invention relates to a hydraulic press unit (1) having a fixed part (2) and a moving part (3), wherein the moving part is moved relative to the fixed part (2) by means of a hydraulic piston (4) and can be moved back into an initial position by means of a restoring spring (5), wherein furthermore, the return movement can be triggered as a function of a predetermined pressing pressure by means of the response of a return valve (6), wherein furthermore a control valve (7) is provided which, in addition to the return valve (6), opens up a hydraulic medium outlet (8) in the open state and has a hydraulic medium inflow and outflow side. To provide a hydraulic press unit of said type which is of advantageous design with regard to the response of the control valve, it is proposed that, when the return valve (6) opens, the control valve (7) is acted on by the pressure of the returning hydraulic medium on the inflow and outflow sides, wherein the pressure on the inflow side is lower as a result of throttling.

IPC 8 full level
B21D 28/00 (2006.01); **B21D 39/04** (2006.01); **B21J 15/20** (2006.01); **B25B 27/10** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP KR US)
B21D 22/02 (2013.01 - EP KR US); **B21D 39/048** (2013.01 - EP KR US); **B21J 15/20** (2013.01 - EP KR US); **B25B 27/10** (2013.01 - EP KR US); **B25F 5/005** (2013.01 - EP KR US); **F15B 15/20** (2013.01 - KR)

Citation (search report)
See references of WO 2011000907A1

Cited by
EP2835540A1; EP4338892A1; US9541101B2

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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009026273 A1 20110105; AU 2010268021 A1 20120202; AU 2010268021 B2 20140710; BR PI1015945 A2 20160419; CN 102481689 A 20120530; CN 102481689 B 20141210; EP 2448720 A1 20120509; EP 2448720 B1 20130320; ES 2411881 T3 20130709; KR 101821238 B1 20180123; KR 20120052957 A 20120524; MX 2012000079 A 20120229; PL 2448720 T3 20130731; RU 2012103481 A 20130810; RU 2532224 C2 20141027; US 2012160065 A1 20120628; US 8844436 B2 20140930; WO 2011000907 A1 20110106

DOCDB simple family (application)
DE 102009026273 A 20090729; AU 2010268021 A 20100701; BR PI1015945 A 20100701; CN 201080039220 A 20100701; EP 10727433 A 20100701; EP 2010059356 W 20100701; ES 10727433 T 20100701; KR 20127003010 A 20100701; MX 2012000079 A 20100701; PL 10727433 T 20100701; RU 2012103481 A 20100701; US 201013381159 A 20100701