

Title (en)
Hydraulic press drive

Title (de)
Hydraulischer Pressenantrieb

Title (fr)
Entraînement de presse hydraulique

Publication
EP 2335840 A2 20110622 (DE)

Application
EP 10015501 A 20101210

Priority
DE 102009058407 A 20091215

Abstract (en)
The drive has an unlockable non-return valve (14) connecting a pressure chamber (12) of a counter-holding cylinder with a tank (T). A tool part is movable for acceleration by a quick movement cylinder (10) and is subjected to counter holding pressure by a counter-holding cylinder (6). The cylinders are arranged in hydraulic circuits with a counter-holding hydro-machine (30) and a motor (32), where the circuits are separated from each other. A hydro-storage arrangement (26) is provided in a pressure line (24) between one of the hydro-machine or the motor and the chamber.

Abstract (de)
Offenbart ist ein hydraulischer Pressenantrieb mit einem Eilgangzylinder (2) und einem Gegenhaltezylinder (4), die jeweils in einem eigenen hydraulischen Kreis mit einer Hydromaschine angeordnet sind.

IPC 8 full level
B21D 24/14 (2006.01)

CPC (source: EP)
B21D 24/14 (2013.01); **B30B 15/16** (2013.01); **B30B 15/163** (2013.01)

Citation (applicant)
• DE 4309641 A1 19930930 - REXROTH MANNESMANN GMBH [DE]
• DE 10336279 A1 20050303 - BOSCH REXROTH AG [DE]
• "Handbuch der Umformtechnik", 1996, SPRINGER VERLAG

Cited by
EP2384834A3

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2335840 A2 20110622; EP 2335840 A3 20141231; EP 2335840 B1 20210217; DE 102009058407 A1 20110616; ES 2865726 T3 20211015

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