

Title (en)
HYDRAULIC DRIVE

Title (de)
HYDRAULISCHER ANTRIEB

Title (fr)
ENTRAÎNEMENT HYDRAULIQUE

Publication
EP 1625011 A1 20060215 (DE)

Application
EP 04732933 A 20040514

Priority
• DE 2004001014 W 20040514
• DE 10322169 A 20030516
• DE 102004005020 A 20040130

Abstract (en)
[origin: US2007012171A1] What is disclosed is a hydraulic drive mechanism for a blanking or forming machine comprising a working cylinder having several pressure chambers, the piston of which acts directly or indirectly on a workpiece to be processed, wherein at least one pressure chamber of the working cylinder for retracting and extending the piston is adapted to be subjected to a tank pressure or a supply pressure via a continuously adjustable valve, and comprising a valve assembly arranged upstream of the continuously adjustable valve, whereby an inlet port of the continuously adjustable valve may be subjected to a higher or lower supply pressure, wherein the valve assembly comprises a switching valve adapted to be switched over between a basic position and a switching position in dependence on the load pressure at the working cylinder in order to tap the supply pressure from a low-pressure source or from a high-pressure source.

IPC 1-7
B30B 15/16

IPC 8 full level
B30B 15/16 (2006.01); **F03C 1/007** (2006.01); **F15B 11/02** (2006.01); **F15B 11/024** (2006.01); **F15B 11/028** (2006.01); **F15B 11/036** (2006.01)

CPC (source: EP US)
B30B 15/16 (2013.01 - EP US); **B30B 15/161** (2013.01 - EP US); **F03C 1/007** (2013.01 - EP US); **F15B 11/022** (2013.01 - EP US); **F15B 11/024** (2013.01 - EP US); **F15B 11/028** (2013.01 - EP US); **F15B 11/036** (2013.01 - EP US); **F15B 2211/20592** (2013.01 - EP US); **F15B 2211/3133** (2013.01 - EP US); **F15B 2211/6653** (2013.01 - EP US)

Citation (search report)
See references of WO 2004103692A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007012171 A1 20070118; **US 7370569 B2 20080513**; AT E389530 T1 20080415; DE 102004024126 A1 20041202;
DE 502004006585 D1 20080430; EP 1625011 A1 20060215; EP 1625011 B1 20080319; JP 2007502213 A 20070208;
WO 2004103692 A1 20041202

DOCDB simple family (application)
US 55702305 A 20051116; AT 04732933 T 20040514; DE 102004024126 A 20040514; DE 2004001014 W 20040514;
DE 502004006585 T 20040514; EP 04732933 A 20040514; JP 2006529598 A 20040514