

Title (en)
MAIN CYLINDER OR PRESS CYLINDER OF AN EXTRUSION/ TUBE EXTRUSION PRESS

Title (de)
HAUPT- BZW. PRESSZYLINDER EINER ROHR- UND STRANGPRESSE

Title (fr)
CYLINDRE PRINCIPAL OU CYLINDRE DE COMPRESSION D'UNE EXTRUDEUSE

Publication
EP 1526930 B1 20070704 (DE)

Application
EP 03778235 A 20030805

Priority
• DE 0302621 W 20030805
• DE 10236297 A 20020808

Abstract (en)
[origin: US2006101886A1] The invention relates to a main cylinder or compression cylinder (4) of an extrusion/tube extrusion press (1), said cylinder being located in a transversal element (2) and comprising a cylinder housing (3) with a press piston (5), which is connected to a rod (9) that projects from the cylinder housing. According to the invention, the rod (9) is configured with an integrated feed and return cylinder (12) and comprises an axial hollow bore (13) that forms a hydraulic chamber (18) and houses a sword-shaped tube (15), the latter being surrounded concentrically by an outer housing (17), thus forming an annular gap (16), which is fluidically connected to the hydraulic chamber (18). Said tube is immobilised by one end that projects from the rod (9), together with the outer housing (17) in a hydraulic connection block (14), which comprises a conduit connection that opens into the sword-shaped tube (15) and a conduit connection (23; 24) that opens into the annular gap (16).

IPC 8 full level
B21C 23/21 (2006.01); **B30B 1/32** (2006.01)

CPC (source: EP US)
B21C 23/211 (2013.01 - EP US); **B30B 1/323** (2013.01 - EP US)

Cited by
WO2013064251A1; WO2013064250A1; DE102014209685B3; KR20140027536A

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 PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006101886 A1 20060518; US 7421874 B2 20080909; AT E366152 T1 20070715; DE 10236297 A1 20040219; DE 50307620 D1 20070816; EP 1526930 A1 20050504; EP 1526930 B1 20070704; ES 2289343 T3 20080201; JP 2005534501 A 20051117; JP 4149995 B2 20080917; WO 2004018120 A1 20040304

DOCDB simple family (application)
US 52464406 A 20060105; AT 03778235 T 20030805; DE 0302621 W 20030805; DE 10236297 A 20020808; DE 50307620 T 20030805; EP 03778235 A 20030805; ES 03778235 T 20030805; JP 2004529710 A 20030805