

Title (en)
EXTRUDER AND TUBE EXTRUDER OR METAL EXTRUSION PRESS

Title (de)
STRANG- UND ROHRPRESSE BZW. METALLSTRANGPRESSE

Title (fr)
PRESSE D'EXTRUSION DE TUBES OU DE BARRES MÉTALLIQUES

Publication
EP 2773471 A1 20140910 (DE)

Application
EP 12788438 A 20121031

Priority
• DE 102011117275 A 20111031
• EP 2012004554 W 20121031

Abstract (en)
[origin: WO2013064251A1] The invention relates to an extruder and tube extruder or metal extrusion press (1) having a press frame consisting of a cylinder bar (2) and a counter bar (4) connected thereto, in which a movable block receiver holder (7) supporting a block receiver (8) and a movable plunger traverse (6) are provided, wherein a main or pressing cylinder arranged in the cylinder bar (2) holds in its cylinder housing (9) a pressing piston (11) that is supported at its front end by the plunger traverse (6) and is furnished with a pressing plunger (18), and wherein the cylinder housing (9) connected to a tank line is associated with a compensation container (15) supplying the pressing piston (11) with hydraulic oil by means of a pusher plate (22) provided on a connecting rod (23) connected to the rear end of the pressing piston (11), wherein the connecting rod (23) extending in the compensation container (15) is connected to a hydraulic supply arranged upstream of the pusher plate (22) in the pressing direction (14). The considerable hydraulic expense for such an extruder, and in particular the downtime, is to be markedly reduced or shortened, with a simultaneously compact and simple construction. For this purpose the connecting rod (23) is constructed with an integrated filling valve (19) provided in the transition from the compensation container (15) to the main cylinder, adapted to the inside diameter of the cylinder housing (9) there and exposing a large annular cross-sectional area when it opens.

IPC 8 full level
B21C 23/21 (2006.01)

CPC (source: EP US)
B21C 23/211 (2013.01 - EP US); **B21C 23/217** (2013.01 - US)

Citation (search report)
See references of WO 2013064251A1

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)
WO 2013064251 A1 20130510; CN 103906585 A 20140702; CN 103906585 B 20151125; EP 2773471 A1 20140910; EP 2773471 B1 20160323; ES 2570328 T3 20160517; JP 2014532564 A 20141208; JP 5921702 B2 20160524; KR 101557132 B1 20151002; KR 20140024052 A 20140227; PL 2773471 T3 20161130; RU 2569008 C1 20151120; US 10166585 B2 20190101; US 2015290690 A1 20151015

DOCDB simple family (application)
EP 2012004554 W 20121031; CN 201280053835 A 20121031; EP 12788438 A 20121031; ES 12788438 T 20121031; JP 2014539257 A 20121031; KR 20147001263 A 20121031; PL 12788438 T 20121031; RU 2014108603 A 20121031; US 201214128065 A 20121031