

Title (en)
PRESS FOR DIRECT EXTRUSION OF METAL PRODUCTS

Title (de)
PRESSE ZUR DIREKTEN EXTRUSION VON METALLPRODUKTEN

Title (fr)
PRESSE POUR EXTRUSION DIRECTE DE PRODUITS MÉTALLIQUES

Publication
EP 2804705 B1 20160330 (EN)

Application
EP 13710020 A 20130118

Priority

- IT MI20120053 A 20120119
- IB 2013050474 W 20130118

Abstract (en)
[origin: WO2013108222A1] A press for the direct extrusion (100) of billets comprises a shear (6) for cutting the bottom precisely along a plane orthogonal to the extrusion axis (X) which is carried by the columns (9', 9'') by means of sliding guides (13', 13''), so as to allow the shear (6) to slide and to position in different points along the extrusion axis (X) in different steps of the extrusion operation to carry out the cutting operation and to position in quiescent position during which the easy replacement of the container (3) may also be carried out.

IPC 8 full level
B21C 23/21 (2006.01); **B21C 35/04** (2006.01)

CPC (source: EP US)
B21C 23/21 (2013.01 - US); **B21C 23/212** (2013.01 - EP US); **B21C 35/04** (2013.01 - EP US)

Citation (opposition)
Opponent : SMS group GmbH

- US 3220237 A 19651130 - GOVAN WILLIAM L
- WO 2010060753 A1 20100603 - DANIELI OFF MECC [IT], et al
- JP S5454958 A 19790501 - KOBE STEEL LTD
- JP H07323329 A 19951212 - UBE INDUSTRIES
- JP S5737507 U 19820227
- DE 1983024 U 19680411 - COMMW SCIENT IND RES ORG [AU]
- DE 3120641 A1 19820401 - KOBE STEEL LTD [JP]
- CN 101862761 A 20101020 - UBE MACHINERY CORP LTD
- EP 0042260 B1 19840516
- EP 0154463 B1 19880107
- JP S55148809 U 19801027
- JP 2005537133 A 20051208
- US 4424696 A 19840110 - ASARI AKIRA [JP], et al
- IT 1251438 B 19950509 - TORNESE GIAN MATTEO

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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 2013108222 A1 20130725; CN 104080553 A 20141001; CN 104080553 B 20160706; EP 2804705 A1 20141126; EP 2804705 B1 20160330; IT MI20120053 A1 20130720; RU 2577663 C1 20160320; US 2014373591 A1 20141225

DOCDB simple family (application)
IB 2013050474 W 20130118; CN 201380005945 A 20130118; EP 13710020 A 20130118; IT MI20120053 A 20120119; RU 2014133954 A 20130118; US 201314372964 A 20130118