

Title (en)
DEVICE FOR HYDRAULICALLY ADJUSTING THE ROLLERS OF STRAND GUIDING SEGMENTS OF A CONTINUOUS CASTING INSTALLATION

Title (de)
VORRICHTUNG ZUM HYDRAULISCHEN ANSTELLEN DER ROLLEN VON STRANGFÜHRUNGSSEGMENTEN EINER STRANGGIESSANLAGE

Title (fr)
PROCEDE POUR LE REGLAGE HYDRAULIQUE DES ROULEAUX DES SEGMENTS DE GUIDAGE DU BRIN D'UNE INSTALLATION DE COULEE CONTINUE

Publication
EP 1105235 A1 20010613 (DE)

Application
EP 99944388 A 19990813

Priority
• DE 19836843 A 19980814
• EP 9905944 W 19990813

Abstract (en)
[origin: US6540010B1] A device for hydraulic adjustment of rollers of strand guiding segments of a strand casting device has hydraulic cylinders which are separated by a piston with piston rod into a cylinder chamber and an annular cylinder chamber, respectively. The cylinder chambers can be connected by control members alternately and in opposite directions as well as simultaneously with a pressure source and a pressure sink, wherein on-off valves are provided as control members.

IPC 1-7
B22D 11/128; F15B 13/02

IPC 8 full level
F15B 9/09 (2006.01); **B22D 11/128** (2006.01); **B22D 11/16** (2006.01); **B22D 11/20** (2006.01); **F15B 11/16** (2006.01); **F15B 13/02** (2006.01)

CPC (source: EP KR US)
B22D 11/128 (2013.01 - EP KR US); **B22D 11/16** (2013.01 - EP US)

Citation (search report)
See references of WO 0009279A1

Cited by
DE102007016045A1; WO2008119312A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6540010 B1 20030401; AT E250997 T1 20031015; BR 9912898 A 20010508; CA 2340351 A1 20000224; CA 2340351 C 20070424; CN 1312741 A 20010912; CN 1329145 C 20070801; DE 19836843 A1 20000217; DE 59907218 D1 20031106; EP 1105235 A1 20010613; EP 1105235 B1 20031001; ES 2209494 T3 20040616; ID 28771 A 20010628; JP 2002522231 A 20020723; KR 100593720 B1 20060628; KR 20010053636 A 20010625; RU 2226448 C2 20040410; TR 200100466 T2 20010621; TW 418133 B 20010111; UA 73723 C2 20050915; WO 0009279 A1 20000224

DOCDB simple family (application)
US 76251401 A 20010511; AT 99944388 T 19990813; BR 9912898 A 19990813; CA 2340351 A 19990813; CN 99809654 A 19990813; DE 19836843 A 19980814; DE 59907218 T 19990813; EP 9905944 W 19990813; EP 99944388 A 19990813; ES 99944388 T 19990813; ID 20010561 A 19990813; JP 2000564762 A 19990813; KR 20017001797 A 20010212; RU 2001106988 A 19990813; TR 200100466 T 19990813; TW 88113777 A 19990812; UA 2001031705 A 19990813