

Title (en)

DEVICE FOR SUPPLYING AND REPLACING POURING TUBES IN A CONTINUOUS CASTING PLANT FOR PRODUCING THIN SLABS

Title (de)

VORRICHTUNG ZUM EINFÜHRUNG UND AUSTAUSCH EINES TAUCHROHRES IN EINE STRANGGIESSVORRICHTUNG ZUM GIESSEN VON DÜNNEN BRAMMEN

Title (fr)

DISPOSITIF D'AMENEE ET D'ECHANGE D'UN TUBE DE COULEE DANS UNE INSTALLATION DE COULEE CONTINUE A BRAMES MINCES

Publication

**EP 0714332 B1 19970820 (FR)**

Application

**EP 94920859 A 19940720**

Priority

- BE 9300779 A 19930727
- BE 9400045 W 19940720

Abstract (en)

[origin: US5693249A] PCT No. PCT/BE94/00045 Sec. 371 Date Jan. 26, 1996 Sec. 102(e) Date Jan. 26, 1996 PCT Filed Jul. 20, 1994 PCT Pub. No. WO95/03906 PCT Pub. Date Feb. 9, 1995A pouring tube in the ingot mold of a continuous casting plant for producing thin slabs is replaced by arranging an auxiliary plate (4) on guide rails (9) next to an insert plate (3) of a pouring tube (12) in its operative position (14). A replacement pouring tube (2) is placed next to the auxiliary plate (4) so that the plates (3, 4) form a perfectly planar surface with abutting edges.

IPC 1-7

**B22D 41/56**

IPC 8 full level

**B22D 11/10** (2006.01); **B22D 41/56** (2006.01)

CPC (source: EP US)

**B22D 41/56** (2013.01 - EP US)

Cited by

WO2012095282A1

Designated contracting state (EPC)

AT DE ES FR GB IT LU NL SE

DOCDB simple family (publication)

**US 5693249 A 19971202**; AT E157033 T1 19970915; AU 675152 B2 19970123; AU 7181494 A 19950228; BE 1007317 A3 19950516; BR 9407097 A 19960903; CA 2168108 A1 19950209; CN 1046877 C 19991201; CN 1128001 A 19960731; CZ 23596 A3 19960515; DE 69405112 D1 19970925; DE 69405112 T2 19980326; EP 0714332 A1 19960605; EP 0714332 B1 19970820; ES 2107843 T3 19971201; FI 104315 B1 19991231; FI 104315 B 19991231; FI 960328 A0 19960124; FI 960328 A 19960311; JP 3303031 B2 20020715; JP H09506038 A 19970617; KR 100325586 B1 20021122; PL 178460 B1 20000531; PL 312689 A1 19960513; RU 2124961 C1 19990120; WO 9503906 A1 19950209

DOCDB simple family (application)

**US 58670496 A 19960126**; AT 94920859 T 19940720; AU 7181494 A 19940720; BE 9300779 A 19930727; BE 9400045 W 19940720; BR 9407097 A 19940720; CA 2168108 A 19940720; CN 94192892 A 19940720; CZ 23596 A 19940720; DE 69405112 T 19940720; EP 94920859 A 19940720; ES 94920859 T 19940720; FI 960328 A 19960124; JP 50545895 A 19940720; KR 19960700409 A 19960126; PL 31268994 A 19940720; RU 96104363 A 19940720