

Title (en)

ELECTROMAGNETIC BRAKING DEVICE FOR THE INGOT IN A CONTINUOUS CASTING UNIT

Title (de)

ELEKTROMAGNETISCHE BREMSVORRICHTUNG FÜR DIE KOKILLE EINER STRANGGIESSANLAGE

Title (fr)

DISPOSITIF DE FREINAGE ELECTROMAGNETIQUE DESTINE A LA COQUILLE D'UNE INSTALLATION DE COULEE CONTINUE

Publication

EP 1429879 B1 20050629 (DE)

Application

EP 02800071 A 20020907

Priority

- DE 10146993 A 20010925
- EP 0210029 W 20020907

Abstract (en)

[origin: US7000677B2] The invention relates to an electromagnetic braking device for the steel melt running within the continuous casting ingot in a continuous casting unit. The electromagnetic brake device comprises at least one coil (3) with a ferromagnetic core (5), arranged on the broad side of the ingot and at least one yoke (7) provided on the above. In order to reduce the oscillating masses on the ingot components and to permit the retro-fitting of electromagnetic brakes to conventional continuous casting machines, the electromagnetic brake, comprising yoke (7), coil (3) and ferromagnetic core (5), is embodied such as to pivot inwards or outwards, preferably by means of two unequal length, non-parallel levers in or on the continuous casting ingot, using an actuator (6).

IPC 1-7

B22D 11/115

IPC 8 full level

B22D 11/04 (2006.01); **B22D 11/11** (2006.01); **B22D 11/115** (2006.01)

CPC (source: EP KR US)

B22D 11/115 (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03028925 A1 20030410; AT E298641 T1 20050715; BR 0212804 A 20041005; BR 0212804 B1 20110531; CA 2461569 A1 20030410; CA 2461569 C 20090721; CN 1277635 C 20061004; CN 1558805 A 20041229; DE 10146993 A1 20030410; DE 50203524 D1 20050804; EP 1429879 A1 20040623; EP 1429879 B1 20050629; ES 2243795 T3 20051201; JP 2005520690 A 20050714; JP 4237625 B2 20090311; KR 100886640 B1 20090304; KR 20040031104 A 20040409; MX PA04002747 A 20040729; RU 2004112553 A 20050520; RU 2301130 C2 20070620; UA 77442 C2 20061215; US 2004244942 A1 20041209; US 7000677 B2 20060221; ZA 200401036 B 20040826

DOCDB simple family (application)

EP 0210029 W 20020907; AT 02800071 T 20020907; BR 0212804 A 20020907; CA 2461569 A 20020907; CN 02818690 A 20020907; DE 10146993 A 20010925; DE 50203524 T 20020907; EP 02800071 A 20020907; ES 02800071 T 20020907; JP 2003532231 A 20020907; KR 20047004272 A 20020907; MX PA04002747 A 20020907; RU 2004112553 A 20020907; UA 20040403043 A 20020907; US 49051104 A 20040322; ZA 200401036 A 20040209