

Title (en)

METHOD AND DEVICE FOR EARLY DETECTION OF A RUPTURE IN A CONTINUOUS CASTING PLANT

Title (de)

VERFAHREN UND EINRICHTUNG ZUR DURCHBRUCHFRÜHERKENNUNG IN EINER STRANGGUSSANLAGE

Title (fr)

PROCEDE ET DISPOSITIF POUR IDENTIFIER DE MANIERE PRECOCE UNE RUPTURE DANS UNE INSTALLATION DE COULEE CONTINUE

Publication

EP 1060046 A1 20001220 (DE)

Application

EP 99916748 A 19990218

Priority

- DE 9900445 W 19990218
- DE 19808998 A 19980303

Abstract (en)

[origin: US2003150584A1] A device and method for the early detection of a rupture in a continuous casting plant, in which liquid metal is cast into a chill (2) and is withdrawn from the chill (2) in the form of a billet (1), the temperature of the chill (2) being measured, and the temperature of the chill (2) being simultaneously presented with reference to the location at which the temperature was measured and the time over which the temperature was measured.

IPC 1-7

B22D 11/16

IPC 8 full level

B22D 11/16 (2006.01)

CPC (source: EP US)

B22D 11/16 (2013.01 - EP US)

Citation (search report)

See references of WO 9944772A1

Cited by

US8939191B2; US8162030B2

Designated contracting state (EPC)

AT BE DE FR GB

DOCDB simple family (publication)

US 2003150584 A1 20030814; AT E219978 T1 20020715; DE 19808998 A1 19990909; DE 19808998 B4 20071206; DE 59901923 D1 20020808; EP 1060046 A1 20001220; EP 1060046 B1 20020703; WO 9944772 A1 19990910

DOCDB simple family (application)

US 62360900 A 20001208; AT 99916748 T 19990218; DE 19808998 A 19980303; DE 59901923 T 19990218; DE 9900445 W 19990218; EP 99916748 A 19990218