

Title (en)

METHOD AND DEVICE FOR PRODUCING A METAL STRIP IN A CONTINUOUS CASTING MACHINE WITH CASTING CYLINDERS

Title (de)

VERFAHREN SOWIE EINE VORRICHTUNG ZUR HERSTELLUNG EINES METALLBANDES AN EINER ROLLEN-BANDGIESSMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF POUR PRODUIRE UNE BANDE METALLIQUE SUR UNE MACHINE DE COULEE EN BANDE A ROULEAUX

Publication

**EP 1450972 A2 20040901 (DE)**

Application

**EP 02787916 A 20021206**

Priority

- CH 22522001 A 20011210
- EP 0213849 W 20021206

Abstract (en)

[origin: WO03049888A2] The invention relates to a method for producing a metal strip by continuously casting a molten bath between two casting cylinders (1, 2) of a continuous casting machine. According to said method, a surface current of the inclusions or impurities present on top of the bath is generated by injecting gas into the surface of the molten bath (4a). The injection of gas transports those inclusions or impurities laterally against the lateral seals (3). For this purpose, a device (25) is provided that has at least one gas channel (35, 36; 52) disposed above the surface of the molten bath (4a) and extending in the longitudinal direction of the casting cylinders (1, 2). Said channel has a number of outlet openings (46; 55) that are distributed across its entire length and that are directed downward at an angle and towards the next lateral seal (3). Said device makes it possible to keep the impurities from at least a larger part of the cast strip, thereby increasing purity of the strip.

IPC 1-7

**B22D 11/06**

IPC 8 full level

**B22D 11/06** (2006.01); **B22D 43/00** (2006.01)

CPC (source: EP)

**B22D 11/0622** (2013.01); **B22D 43/005** (2013.01)

Citation (search report)

See references of WO 03049888A2

Cited by

WO2009140762A1; US8336603B2

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 SI SK TR

DOCDB simple family (publication)

**WO 03049888 A2 20030619**; **WO 03049888 A3 20030731**; AT E336315 T1 20060915; AU 2002352223 A1 20030623; AU 2002352223 A8 20030623; CH 695600 A5 20060714; DE 50207883 D1 20060928; EP 1450972 A2 20040901; EP 1450972 B1 20060816

DOCDB simple family (application)

**EP 0213849 W 20021206**; AT 02787916 T 20021206; AU 2002352223 A 20021206; CH 22522001 A 20011210; DE 50207883 T 20021206; EP 02787916 A 20021206