

Title (en)

METHOD OF AND MOLTEN METAL FEEDER FOR CONTINUOUS CASTING

Title (de)

STRANGGIESSVERFAHREN UND SCHMELZMETALLZUFÜHRVORRICHTUNG DAFÜR

Title (fr)

DISPOSITIF D ALIMENTATION DE METAL FONDU POUR COULEE CONTINUE ET SON PROCEDE

Publication

EP 1858661 A1 20071128 (EN)

Application

EP 06705222 A 20060224

Priority

- CA 2006000267 W 20060224
- US 6662505 A 20050225

Abstract (en)

[origin: WO2006089419A1] The invention provides a feeder for delivery of molten metal into a mold formed between confronting casting surfaces of a continuous casting machine. The feeder comprises a projecting nozzle tip having at least a lower wall provided with a molten metal-contacting inner surface, a generally flat outer surface and an end surface at an outer extremity of the tip extending between the inner and outer surface. The inner surface is generally flat and preferably slopes towards the outer surface considered in a direction moving towards the extremity of the tip at an angle of slope of no more than 8 degrees. The end surface is generally flat and extends from the inner surface to the outer surface at an acute angle of less than 88°, e.g. in the range of 15 to 80 degrees, relative to the inner surface in a direction away from the extremity of the tip. The feeder casts a metal sheet article having reduced surface defects caused by rupture of the metal oxide during casting.

IPC 8 full level

B22D 11/06 (2006.01); **B22D 11/103** (2006.01)

CPC (source: EP KR US)

B22D 11/06 (2013.01 - KR); **B22D 11/0605** (2013.01 - EP US); **B22D 11/0642** (2013.01 - EP US); **B22D 11/103** (2013.01 - KR)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

WO 2006089419 A1 20060831; AU 2006217571 A1 20060831; BR PI0609048 A2 20161129; CA 2596473 A1 20060831; CN 100528405 C 20090819; CN 101128277 A 20080220; EP 1858661 A1 20071128; EP 1858661 A4 20090701; JP 2008531285 A 20080814; KR 20070114296 A 20071130; NO 20074877 L 20071123; US 2006191664 A1 20060831; US 2008083524 A1 20080410

DOCDB simple family (application)

CA 2006000267 W 20060224; AU 2006217571 A 20060224; BR PI0609048 A 20060224; CA 2596473 A 20060224; CN 200680006003 A 20060224; EP 06705222 A 20060224; JP 2007556471 A 20060224; KR 20077021831 A 20070921; NO 20074877 A 20070925; US 6662505 A 20050225; US 88457206 A 20060224