

Title (en)
PROCESS FOR OBTAINING A KILLED STEEL WITH A LOW NITROGEN CONTENT

Publication
EP 0196952 A3 19881026 (FR)

Application
EP 86400532 A 19860313

Priority
FR 8504909 A 19850401

Abstract (en)
[origin: ES8702810A1] The process for producing killed steel having a low content of nitrogen comprises pouring an effervescent steel from a converter into a ladle in which there are added to the molten steel contained in the ladle, in the course of the pouring operation, additives for killing the steel, such as aluminium, silicon, etc. . . . The invention comprises pouring the effervescent steel into the ladle before introducing the killing additives, and prior to the introduction of the killing additives carbon dioxide in the form of carbon dioxide snow in the vicinity of the lower part of the pouring jet and on the surface of the bath of steel in the ladle in a quantity sufficient to protect the surface of the molten metal from the surrounding air upon the introduction of the killing additives into the ladle.

IPC 1-7
B22D 1/00; **B22D 27/00**

IPC 8 full level
C22C 33/04 (2006.01); **B22D 1/00** (2006.01); **B22D 27/00** (2006.01); **C21C 7/00** (2006.01); **C21C 7/04** (2006.01); **C21C 7/06** (2006.01)

CPC (source: EP US)
B22D 1/00 (2013.01 - EP US); **B22D 27/003** (2013.01 - EP US); **C21C 7/06** (2013.01 - EP US)

Citation (search report)
• [XD] BE 677958 A 19660916
• [A] BE 677957 A 19660916
• [A] FR 434070 A 19120124 - MARCELLIN REYMONDIER [FR]
• [A] LU 70560 A1 19741128

Cited by
EP0274290A1; FR2607039A1; DE4426596A1; EP0288369A3

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0196952 A2 19861008; **EP 0196952 A3 19881026**; **EP 0196952 B1 19900926**; AT E56896 T1 19901015; AU 5504686 A 19861009; AU 586856 B2 19890727; BR 8601411 A 19861209; CA 1268044 A 19900424; DE 3674446 D1 19901031; ES 553528 A0 19870116; ES 8702810 A1 19870116; FR 2579495 A1 19861003; FR 2579495 B1 19870911; JP S61235507 A 19861020; US 4666511 A 19870519; ZA 862011 B 19861029

DOCDB simple family (application)
EP 86400532 A 19860313; AT 86400532 T 19860313; AU 5504686 A 19860324; BR 8601411 A 19860331; CA 505509 A 19860401; DE 3674446 T 19860313; ES 553528 A 19860331; FR 8504909 A 19850401; JP 7142286 A 19860331; US 84378186 A 19860325; ZA 862011 A 19860318