

Title (en)
PROCESS FOR PRODUCING DESULFURIZING AGENTS FOR PIG IRON OR STEEL MELTS

Publication
EP 0061011 B1 19840926 (DE)

Application
EP 82101427 A 19820225

Priority
DE 3111509 A 19810324

Abstract (en)
[origin: ES8302104A1] The disclosure relates to a process for the manufacture of desulfurizing agents containing 1-6 weight % chemically combined water, based on calcium oxide and carbon-containing calcium carbide, for crude iron and steel melts. More particularly, the disclosure provides for a molten mixture of calcium carbide and calcium oxide containing 20 to 80 weight % CaO to be made from lime and coke for the mixture to be allowed to cool and solidify into a block for the solidified block while it still has an average temperature of more than 400 DEG C. to be crushed to particles with a size of less than 150 mm for the comminuted mixture, which still has a temperature of at least 400 DEG C. to be admixed with a quantity of calcium oxide necessary to establish in the resulting mixture a total content of CaO corresponding to the CaO content desired in the end product and for the mixture to be ground while intensively mixing it with free carbon and carbonate in the presence of air or nitrogen with a moisture content of 5 to 20 g/m³ (at 1.013 bar and 273.15 K.) at temperatures below 100 DEG C. to particles with a size of less than 10 mm.

IPC 1-7
C21C 1/02; **C21C 7/064**

IPC 8 full level
C21C 1/02 (2006.01); **C21C 7/064** (2006.01); **C21C 7/076** (2006.01)

CPC (source: EP US)
C21C 1/025 (2013.01 - EP US); **C21C 7/0645** (2013.01 - EP US)

Cited by
EP0220522A1

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

DOCDB simple family (publication)
EP 0061011 A1 19820929; **EP 0061011 B1 19840926**; AT E9596 T1 19841015; BR 8201618 A 19830208; CA 1184384 A 19850326; DD 202183 A5 19830831; DE 3111509 A1 19821007; DE 3260809 D1 19841031; ES 510769 A0 19830201; ES 8302104 A1 19830201; JP H0135883 B2 19890727; JP S57169010 A 19821018; US 4400292 A 19830823; ZA 821939 B 19830223

DOCDB simple family (application)
EP 82101427 A 19820225; AT 82101427 T 19820225; BR 8201618 A 19820323; CA 398465 A 19820316; DD 23830882 A 19820319; DE 3111509 A 19810324; DE 3260809 T 19820225; ES 510769 A 19820324; JP 4574682 A 19820324; US 35922982 A 19820318; ZA 821939 A 19820323