

Title (en)
METHOD FOR REFINING A METAL MELT

Publication
EP 0034108 B1 19850717 (FR)

Application
EP 81630003 A 19810107

Priority
LU 82070 A 19800109

Abstract (en)
[origin: ES8203103A1] A process for refining a steel melt in a furnace in which a steel melt is formed with a slag layer thereon, the thickness of which can be controlled by passing a stream of inert gas upwardly through the melt, while directing a first stream of oxygen into the melt from a lance positioned above the melt for the top-blowing refining thereof to produce carbon monoxide above the melt and feeding a second stream of oxygen from the lance for the post-combustion of the released carbon monoxide, while monitoring continuously the thickness of the slag layer, the height of the melt, the carbon monoxide post-combustion factor (%CO₂/%CO+%CO₂) and the speed of decarburization of the melt and controlling the height of the lance above the melt and the discharge rates of total blown oxygen, the second stream of oxygen and the inert gas stream at any given time in accordance with a particular relationship.

IPC 1-7
C21C 5/30

IPC 8 full level
C21C 5/32 (2006.01); **C21C 5/30** (2006.01)

CPC (source: EP US)
C21C 5/30 (2013.01 - EP US)

Citation (examination)
• LU 69358 A1 19740517
• LU 69388 A1 19740529

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

DOCDB simple family (publication)
EP 0034108 A1 19810819; EP 0034108 B1 19850717; AT E14320 T1 19850815; AU 536836 B2 19840524; AU 6589380 A 19810716; BR 8100121 A 19810728; CA 1157659 A 19831129; CS 249112 B2 19870312; DE 3171356 D1 19850822; ES 498381 A0 19820301; ES 8203103 A1 19820301; JP S56102509 A 19810817; LU 82070 A1 19810910; PL 229120 A1 19810904; PT 72323 A 19810201; PT 72323 B 19811218; RO 81435 A 19830601; US 4334922 A 19820615; ZA 808091 B 19820127

DOCDB simple family (application)
EP 81630003 A 19810107; AT 81630003 T 19810107; AU 6589380 A 19801230; BR 8100121 A 19810109; CA 367940 A 19810106; CS 20581 A 19810109; DE 3171356 T 19810107; ES 498381 A 19810108; JP 128981 A 19810109; LU 82070 A 19800109; PL 22912081 A 19810108; PT 7232381 A 19810108; RO 10295480 A 19801225; US 22271681 A 19810105; ZA 808091 A 19801229