

Title (en)
APPARATUS FOR BLOWING AN AGITATING GAS INTO A CONVERTER FOR REFINING METALS

Publication
EP 0064449 B1 19841128 (FR)

Application
EP 82400731 A 19820423

Priority
FR 8108188 A 19810424

Abstract (en)
[origin: US4413815A] A device for swirling, through the bottom of a converter for refining liquid metals, by oxygen lance blowing, consisting of a set of single tube tuyeres, located throughout the entire thickness of the refractory coating of the converter and wearing away with the latter. The tube constituting each of the tuyeres is flattened along the whole consumable length (1b) of the tuyere, the width of the internal cross-section for the passage of the gas in the flattened tube (1b) is, at most, equal to 1.0 mm and, preferably, approximately 0.5 mm, the head (1a) of each of said tubes, generally cylindrical, passes through a steel plate (5) to which it is brazed, and the steel plate (5) constitutes one of the walls of a distribution chamber (6) between the swirling gas tuyeres, supplied with gas through a duct (7), the chamber (6) being fixed by means of the plate (5) to the exterior surface of the sheathing (8) of the converter.

IPC 1-7
C21C 5/32; **C21C 7/072**; **C21C 5/48**

IPC 8 full level
C21C 5/32 (2006.01); **C21C 5/35** (2006.01); **C21C 5/48** (2006.01); **C21C 7/072** (2006.01)

CPC (source: EP US)
C21C 5/35 (2013.01 - EP US); **C21C 5/48** (2013.01 - EP US); **C21C 7/072** (2013.01 - EP US)

Cited by
EP0403466A3; EP0155255A3; EP0146079A3; US4647020A; EP0232244A3; US4744546A; AU599949B2

Designated contracting state (EPC)
AT DE FR SE

DOCDB simple family (publication)
EP 0064449 A1 19821110; **EP 0064449 B1 19841128**; AT E10509 T1 19841215; DE 3261349 D1 19850110; FR 2504664 A1 19821029; FR 2504664 B1 19830603; JP S57181319 A 19821108; JP S6157885 B2 19861209; US 4413815 A 19831108

DOCDB simple family (application)
EP 82400731 A 19820423; AT 82400731 T 19820423; DE 3261349 T 19820423; FR 8108188 A 19810424; JP 6944382 A 19820424; US 37065282 A 19820421