

Title (en)
PROCESS FOR GAS-STIRRING A METAL BATH

Publication
EP 0062548 B1 19850502 (FR)

Application
EP 82400345 A 19820301

Priority
FR 8105017 A 19810311

Abstract (en)
[origin: US4397684A] A process of pneumatic stirring of a bath of molten metal according to which a stirring fluid is injected through permeable refractory elements arranged at the bottom of a crucible containing the bath, in which the used stirring fluid is, at least temporarily, an organic liquid such as hydrocarbon. The process is advantageously used on a bath of molten pig iron during refining of the same by oxygen, and in which the organic liquid is replaced immediately after decarburization of the bath by an inert gas such as argon or nitrogen. The process thus permits an efficient stirring of the bath of molten metal without the risk of polluting the metal either by hydrogen or nitrogen.

IPC 1-7
C21C 5/32; **C22B 9/05**; **C21C 7/072**

IPC 8 full level
C21C 5/34 (2006.01); **B22D 1/00** (2006.01); **C21C 5/32** (2006.01); **C21C 5/35** (2006.01); **C21C 7/072** (2006.01); **C22B 9/05** (2006.01)

CPC (source: EP US)
B22D 1/005 (2013.01 - EP US); **C21C 5/35** (2013.01 - EP US); **C22B 9/05** (2013.01 - EP US)

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EP 0032343 A1 19810722 - SIDERURGIE FSE INST RECH [FR]

Cited by
CN101892356A; EP0125173A1; FR2545393A1

Designated contracting state (EPC)
AT DE GB SE

DOCDB simple family (publication)
EP 0062548 A1 19821013; **EP 0062548 B1 19850502**; AT E13075 T1 19850515; AU 8055582 A 19820916; CA 1175236 A 19841002; DE 3263349 D1 19850605; FR 2501722 A1 19820917; FR 2501722 B1 19860814; JP S57161019 A 19821004; US 4397684 A 19830809

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