

Title (en)
METHOD FOR THE GASEOUS STIRRING OF A MOLTEN METAL BATH

Publication
EP 0032343 B1 19860305 (FR)

Application
EP 80401859 A 19801223

Priority
FR 8000083 A 19800102

Abstract (en)
[origin: US4382817A] A process for periodically and pneumatically stirring a bath of molten metal, wherein during the periods in which no stirring effect is required a fluid in gaseous state is injected through injection devices below the surface of the bath of molten metal in an amount sufficient to prevent blockage of the devices, whereas during the periods in which a stirring effect is required a fluid in liquid state which will vaporize quickly upon contact with the liquid metal is injected to provide an optimum amount of mixing gas with a minimum of injection devices. The process is advantageously used in converters for pneumatically converting pig iron into steel and in which oxygen is blown from above onto the bath of molten metal.

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

IPC 8 full level
B01F 33/40 (2022.01); **C21C 5/32** (2006.01); **C21C 5/35** (2006.01); **C21C 7/072** (2006.01); **F27D 27/00** (2010.01)

CPC (source: EP US)
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EP 0032343 A1 19810722; **EP 0032343 B1 19860305**; AT E18438 T1 19860315; AU 535747 B2 19840405; AU 6588480 A 19810806; CA 1159653 A 19840103; DE 3071475 D1 19860410; FR 2473064 A1 19810710; FR 2473064 B1 19831110; JP S56102689 A 19810817; US 4382817 A 19830510

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