

Title (en)

Method of ultrasonic injection of an oxidationagent in a melting furnace

Title (de)

Verfahren zur Überschall-Eindüsung eines Oxidationsmittels in einen Schmelzofen

Title (fr)

Procédé pour l'injection par ultrasons d'un agent d'oxidation dans un four de fusion

Publication

EP 1739194 B1 20080130 (DE)

Application

EP 06116219 A 20060628

Priority

DE 102005031019 A 20050702

Abstract (en)

[origin: EP1739194A1] Operating a melting furnace by supplying charge material, fuel and an oxidizing agent to a melting zone comprises injecting the oxidizing agent through peripheral ultrasonic injectors in supersonic pulses and adjusting the on/off ratio of the injectors and the number of injectors in use as a function of a predetermined or continuously determined oxidizing agent supply so that the supply is continuously maintained and a flow pattern that uniformly covers the melting zone is produced.

IPC 8 full level

C21B 11/02 (2006.01)

CPC (source: EP)

C21B 5/023 (2013.01); **C21B 11/02** (2013.01); **F27B 1/10** (2013.01); **F27D 3/16** (2013.01)

Cited by

CN111315900A; EP3418401A1; WO2018234416A1

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