

Title (en)
PROCESS AND DEVICE FOR BLOWING OXYGEN-CONTAINING GAS WITH AND WITHOUT SOLID MATERIAL ON A METAL MELT IN A METALLURGICAL VESSEL, ESPECIALLY AN RH VESSEL

Title (de)
VERFAHREN UND VORRICHTUNG ZUM AUFBLASEN VON SAUERSTOFFHALTIGEM GAS MIT UND OHNE FESTSTOFF AUF EINE IN EINEM METALLURGISCHEN GEFÄSS INSBESONDERE IN EINEM RH-GEFÄSS BEFINDLICHEN METALLSCHMELZE

Title (fr)
PROCEDE ET DISPOSITIF POUR LE SOUFFLAGE DE GAZ CONTENANT DE L'OXYGENE, AVEC OU SANS MATIERES SOLIDES, SUR UNE MASSE DE METAL EN FUSION SE TROUVANT DANS UN RECIPIENT METALLURGIQUE, NOTAMMENT DANS UN RECIPIENT RH

Publication
EP 0792378 A1 19970903 (DE)

Application
EP 95935838 A 19951027

Priority
• DE 9501521 W 19951027
• DE 4442362 A 19941118

Abstract (en)
[origin: DE4442362C1] Method and an appts. for blowing an oxygen-bearing gas either with or without solid matter onto a melt in a melt in a metallurgical vessel. The standard multi-function lance of relatively simple construction allows different process steps to be carried out by appropriately varying the introduction rates of individual media into the lance. In partic., the gas stream is brought into oscillations by means of an impact ring (13) forming part of the internal lance structure. The stream of gas or gas and solid matter leaves the Laval type lance nozzle (17) at a supersonic velocity.

IPC 1-7
C21C 7/10

IPC 8 full level
C21C 7/072 (2006.01); **C21C 5/48** (2006.01); **C21C 7/10** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP US)
C21C 7/10 (2013.01 - EP US)

Citation (search report)
See references of WO 9616190A1

Designated contracting state (EPC)
DE

DOCDB simple family (publication)
DE 4442362 C1 19960418; AU 3800795 A 19960617; DE 59506914 D1 19991028; EP 0792378 A1 19970903; EP 0792378 B1 19990922; JP H10508907 A 19980902; RU 2135604 C1 19990827; TW 314555 B 19970901; US 5931985 A 19990803; WO 9616190 A1 19960530; ZA 959533 B 19960527

DOCDB simple family (application)
DE 4442362 A 19941118; AU 3800795 A 19951027; DE 59506914 T 19951027; DE 9501521 W 19951027; EP 95935838 A 19951027; JP 51642995 A 19951027; RU 97110068 A 19951027; TW 84111724 A 19951103; US 83668897 A 19970519; ZA 959533 A 19951109