

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  
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• 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)  
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DE

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**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