

Title (en)  
HOT-BLAST LANCE

Title (de)  
HEISSWINDLANZE

Title (fr)  
LANCE À AIR CHAUD

Publication  
**EP 2882874 A1 20150617 (DE)**

Application  
**EP 13737131 A 20130620**

Priority  
• DE 102012016143 A 20120808  
• EP 2013001825 W 20130620

Abstract (en)  
[origin: WO2014023372A1] The invention relates to a hot-blast lance for use in metallurgical processes, such as for example steel production, with which hot air can be blown in above a molten bath of a steel converter, which consists of an outer shell and at least one inner shell, and at least one intermediate space or cooling channel through which coolant flows is arranged between the outer shell and an inner shell. In order to achieve the effect here that a hot-blast lance can be further developed to the extent that hot air can be introduced into a reaction vessel, for example a steel converter, particularly effectively, that is to say with least possible thermal losses, and the lance is adapted better to this operating environment, it is proposed according to the invention that the inner shell (2) or the innermost shell (4) at least partially consists of a thermally insulating further shell (4), or a thermally insulating shell, or is provided with such a shell, or is coated with a thermally insulating layer.

IPC 8 full level  
**C21C 5/46** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP)  
**C21C 5/4613** (2013.01); **F27D 3/16** (2013.01); **C21C 2250/02** (2013.01)

Citation (search report)  
See references of WO 2014023372A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2014023372 A1 20140213**; DE 102012016143 A1 20140213; EP 2882874 A1 20150617; EP 2882874 B1 20190807

DOCDB simple family (application)  
**EP 2013001825 W 20130620**; DE 102012016143 A 20120808; EP 13737131 A 20130620