

Title (en)
BLOWING LANCE

Publication
EP 0340207 B1 19920520 (DE)

Application
EP 89890114 A 19890420

Priority
AT 104488 A 19880425

Abstract (en)
[origin: US4951928A] A blowing lance to be used for the treatment of metallurgical melts includes a lance head having several expansion tuyeres directed to the bath level of the melt and penetrating a front plate of the lance head. They depart from at least one lance channel, which is peripherally surrounded by a supply channel and a return channel for a cooling medium. The supply channel is separated from the return channel by a flow deflection piece arranged above the front plate and penetrated by at least one connecting channel connecting the supply and return channels and provided for the cooling medium. In order to considerably increase the service life of the blowing lance and to avoid leakages in the front plate, at least one coolant secondary channel is provided in addition to the at least one connecting channel, which, upon branching off a partial stream of the coolant flowing to the connecting channel, diverts this partial stream into a flow direction deviating from the flow direction in the connecting channel and whose mouth is directed directly towards the center of the front plate.

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C21C 5/46

IPC 8 full level
C21C 5/48 (2006.01); **C21C 5/46** (2006.01)

CPC (source: EP KR US)
C21C 5/4606 (2013.01 - EP US); **C21C 7/072** (2013.01 - KR); **C21C 2005/4626** (2013.01 - EP US)

Citation (examination)
• SOVIET INVENTIONS ILLUSTRATED Woche 84, Nr. M24, 010357/02, 22. Februar 1984, Derwent Publications Ltd., London, GB; & SU-A-1002366 (ZHDANOV AZOVSTAL) 07.03.1983
• SOVIET INVENTIONS ILLUSTRATED Woche 8617, Nr. M24, 112140/17, 9. Mai 1986, Derwent Publications Ltd., London GB; & SU-A-1183547 (DNEPR METALLURGY) 07.10.85

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