

Title (en)

OXYGEN BLOWING LANCE WITH PROTECTION ELEMENT

Title (de)

SAUERSTOFFBLASLANZE MIT SCHUTZELEMENT

Title (fr)

LANCE DE SOUFFLAGE D'OXYGÈNE DOTÉE D'UN ÉLÉMENT DE PROTECTION

Publication

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Application

EP 09765708 A 20090525

Priority

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Abstract (en)

[origin: WO2009153128A1] The invention relates to an oxygen blowing lance for steel production comprising a protection element, wherein the end of the main oxygen tube at the lance head is provided with a cover shell comprising one or more outlets, wherein removably and exchangeably fastened to each outlet is an oxygen outlet nozzle, wherein the protection element is provided removably and exchangeably at the lance head end of the oxygen blowing lance, and an intermediate space is present between the lance head end of the oxygen blowing lance and the protection element, wherein penetrations are provided in the protection element, the oxygen outlet nozzles passing through said penetrations from the shell outward, wherein each of these penetrations is dimensioned such that a gap remains between the oxygen outlet nozzle and the protection element, respectively, wherein openings exist in the protection element, and wherein at least one protective gas line exists that feeds into the intermediate space between the lance head end of the oxygen blowing lance and the protection element. The invention further relates to a method for operating the oxygen blowing lance in which protective gas is introduced from the protective gas line to the intermediate space between the cover shell and the protection element and is routed from the intermediate space through the gaps between the oxygen outlet nozzles and the protection element and to the outside through the openings in the protection element.

IPC 8 full level

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CPC (source: EP KR US)

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