

Title (en)

BLASTING LANCE WITH A GAS/LIQUID MIXING CHAMBER AND A METHOD FOR THE EXPANSION COOLING THEREOF

Title (de)

BLASLANZE MIT GAS/FLÜSSIGKEIT-MISCHKAMMER UND VERFAHREN ZU DEREN EXPANSIONSKÜHLUNG

Title (fr)

LANCE DE SOUFFLAGE A CHAMBRE DE MELANGE GAZ-LIQUIDE ET SON PROCEDE DE REFROIDISSEMENT PAR DILATATION

Publication

**EP 1062370 A1 20001227 (DE)**

Application

**EP 99907572 A 19990226**

Priority

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- EP 98104153 A 19980309

Abstract (en)

[origin: EP0947587A1] The invention relates to a method for cooling a lance provided for converting a medium into a molten mass and/or for measuring the properties of the molten mass. A gas/liquid mixture is fed as a cooling medium into a cooling circuit which is closed up to the lance end (2) situated on the melting side. The invention provides that the gas/liquid mixture or the components thereof is/are fed and permitted to expand under pressure up to the area of the lance end (2) situated on the melting side. The invention also relates to a lance which has a mixing chamber (5, 6) connected to the cooling circuit. The mixing chamber has the connections (3, 7) for a gas and liquid supply which is designed to produce the gas/liquid mixture, whereby the mixing chamber (5, 6) is connected via a pressure line (10) to at least one two-component nozzle (11) arranged in the area of the lance end (2) which is situated on the melting side.

IPC 1-7

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IPC 8 full level

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