

Title (en)

METHOD FOR OPERATING AT LEAST ONE SUPERSONIC NOZZLE IN A METALLURGICAL VESSEL, METHOD FOR DETERMINING A PRESSURE LOSS AND SYSTEM FOR DETERMINING OPERATING PARAMETERS OF AT LEAST ONE SUPERSONIC NOZZLE

Title (de)

VERFAHREN ZUM BETRIEB MINDESTENS EINER ÜBERSCHALLDÜSE IN EINEM METALLURGISCHEN GEFÄSS, VERFAHREN ZUR ERMITTLUNG EINES DRUCKVERLUSTS, SOWIE SYSTEM ZUM ERMITTELN VON BETRIEBSPARAMETERN MINDESTENS EINER ÜBERSCHALLDÜSE

Title (fr)

PROCÉDÉ D'EXPLOITATION D'AU MOINS UNE TUYÈRE SUPERSONIQUE DANS UN RÉCIPIENT MÉTALLURGIQUE, PROCÉDÉ DE DÉTERMINATION D'UNE PERTE DE CHARGE ET SYSTÈME DE DÉTERMINATION DE PARAMÈTRES DE FONCTIONNEMENT D'AU MOINS UNE TUYÈRE SUPERSONIQUE

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Abstract (en)

[origin: WO2012136698A1] The present invention relates to a method for operating at least one supersonic nozzle (40) in a metallurgical vessel (3), comprising the following steps: measuring the inlet pressure (po(t)) of a gas into a supersonic nozzle (40); simultaneously measuring the feed pressure (pvs(t)) of the gas at a gas feed station (1) arranged at a distance from the supersonic nozzle (40); determining a calibration curve (po(t)=f(pvs(t))) from the measured inlet pressure (po(t)) and the measured feed pressure (pvs(t)); and operating the supersonic nozzle (40) in the metallurgical vessel at a predefined inlet pressure (po) by regulating the feed pressure (pvs) on the basis of the determined calibration curve.

IPC 8 full level

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