

Title (en)

PROBE FOR CONTINUOUS MEASUREMENT OF THE OXYGEN SATURATION IN METAL MELTS

Title (de)

SONDE ZUR KONTINUIERLICHEN MESSUNG DER SAUERSTOFFSÄTTIGUNG IN METALLSCHMELZEN

Title (fr)

SONDE POUR LA MESURE EN CONTINU DE LA SATURATION EN OXYGÈNE DANS DES BAINS DE MÉTAL FONDU

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Application

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Abstract (en)

[origin: WO2013131697A1] 1. Probe for continuous measurement of the oxygen saturation in metal melts, comprising: a) a tubular anode (3) with at least one opening (5) for receiving liquid metal from a metal bath (6); b) a reference electrode (4) arranged inside the tubular anode (3), comprising a recording electrode (4.1) which is immersed into an oxygen ion-conducting solid-state electrolyte cylinder (4.2), said solid-state electrolyte cylinder (4.2) being filled with a reference material (4.3, 4.4); c) a thermal probe (1) arranged inside the tubular anode (3) and d) wherein the tubular anode (3) and the recording electrode (4.1) contain silicon carbide.

IPC 8 full level

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