

Title (en)

Nozzle for oxygen-injection lances used in the decarburisation of pig iron, in particular chromium pig iron.

Title (de)

Einblasdüse für Sauerstoffflanzen zum Entkohlen von Roheisen, insbesondere chromhaltigen Roheisens.

Title (fr)

Buse pour lance d'injection d'oxygène pour la décarburation des fontes et application à la décarburation des fontes au chrome.

Publication

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Application

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Priority

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Abstract (en)

[origin: ES268630U] A nozzle is disclosed for use in the decarburization of molten pig iron by means of a jet of oxygen from a lance provided with such nozzle. The nozzle according to the invention is characterized by a divergent portion which, beyond the neck, has a frustoconical part, with an apex angle of between 60 DEG and 70 DEG and preferably between 62 DEG and 66 DEG , and wherein an angle of 65 DEG is preferred. The nozzle according to the invention can be used in particular for the decarburization of chromium containing pig iron and makes it possible to achieve very high chromium and iron yields.

Abstract (fr)

La nouvelle buse qui fait l'objet de l'invention concerne la décarburation de fontes liquides au moyen d'un jet d'oxygène issu d'une lance équipée d'une telle buse. La buse suivant l'invention se caractérise par un divergent qui comporte au-delà du col une partie tronconique d'angle au sommet compris entre 60 et 70° et, de préférence, entre 62 et 66°. L'angle de 65° est proche de l'optimum. La buse suivant l'invention s'applique en particulier à la décarburation des fontes au chrome et permet l'obtention de rendements très élevés en chrome et en fer.

IPC 1-7

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IPC 8 full level

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- GB 800833 A 19580903 - BRITISH OXYGEN CO LTD
- FR 1476043 A 19670407
- US 3559974 A 19710202 - BERRY WALTER V

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