

Title (en)

METHOD AND DEVICE FOR PRODUCING LIQUID PIG IRON OR LIQUID STEEL PRECURSOR PRODUCTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON FLÜSSIGEM ROHEISEN ODER FLÜSSIGEN STAHLVORPRODUKTEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR FABRIQUER DES FONTES BRUTES LIQUIDES OU DES DEMI-PRODUITS LIQUIDES EN ACIER

Publication

EP 2252710 A1 20101124 (DE)

Application

EP 09722397 A 20090130

Priority

- EP 2009051058 W 20090130
- AT 4232008 A 20080317

Abstract (en)

[origin: WO2009115365A1] A method and a device are claimed for producing liquid pig iron or liquid steel precursor products made of ingredients composed of iron ores and additives thereto, wherein the ingredients are subjected to ongoing reduction in a reduction zone (1) and then fed to a melt zone or a melt system (2), in particular a melter gasifier, for melting with the addition of carbonaceous substrates and oxygen-containing gas, thereby forming a solid bed, wherein a CO and H₂-containing reduction gas is formed that is introduced to the reduction zone (1), reacted there and discharged as a top gas. The method and the device provide that the hot, solid-laden top gas, after the solids are separated, is subjected to at least a dry coarse separation (5) and at least parts of the hot solids separated by the separation are returned to the melt zone or melt system (2) or the reduction system (1). In addition, the top gas is treated in a further fine separation stage (13A).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2009115365A1

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