

Title (en)

METHOD FOR PRODUCING LIQUID PIG IRON AND/OR STEEL BLANKS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FLÜSSIGEM ROHEISEN UND/ODER STAHLVORPRODUKTEN

Title (fr)

PROCEDE POUR LA PRODUCTION DE FONTE LIQUIDE ET/OU D'EBAUCHES D'ACIER

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Application

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Abstract (en)

[origin: WO9946411A1] The invention relates to a method for producing liquid pig iron and/or steel blanks from materials containing iron oxide and optionally additives, preferably in the form of pieces and/or pellets. The feedstocks used are reduced to metallized iron ore in a reduction zone. The metallized iron ore is melted in a melt-down gasification zone with the addition of dried solid carbon carriers and oxygen-containing gases. A reduction gas containing CO and H₂ is produced and fed into the reduction zone where it is reacted, drained off as top gas, gas washed and optionally supplied to a consumer as an export gas. Before it is washed, the top gas which is drained off from the reduction zone undergoes heat exchange with a heat exchanging fluid using all of its sensible heat. Solid carbon carriers (which are provided in order to be fed into the melt-down gasification zone) are dried with the warmed up heat exchanging fluid. The invention also relates to a system for carrying out the inventive method.

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