

Title (en)

METHOD FOR MANUFACTURING HIGH MANGANESE STEEL INGOT

Title (de)

VERFAHREN ZUR HERSTELLUNG VON STAHLBLÖCKEN MIT HOHEM MANGANGEHALT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN LINGOT D'ACIER À HAUTE TENEUR EN MANGANÈSE

Publication

**EP 3633051 A1 20200408 (EN)**

Application

**EP 18806216 A 20180521**

Priority

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- JP 2018019526 W 20180521

Abstract (en)

Provided is a method for refining a high manganese steel by which when refining a high manganese steel containing 5% by mass or more of manganese, high manganese yield can be obtained, and high productivity can be performed. The method includes, when refining a steel containing 5% by mass or more of manganese, a decarburization step (step S100) of performing a decarburization treatment on a hot metal (molten metal (2)) in a converter (1) to make the hot metal into a molten steel (molten metal (2)) having a low carbon concentration, a reduction step (step S102) of performing a reduction treatment on the molten steel by adding a manganese source and a silicon source to the molten steel kept in the converter (1) after the decarburization step, and a degassing step (step S104) of performing a vacuum degassing treatment on the molten steel by a vacuum degassing device (5) after the reduction step, in which, in the reduction step, the manganese source is added in accordance with a target manganese concentration in the steel, and the silicon source is added so as to satisfy Formula (1).

IPC 8 full level

**C21C 7/00** (2006.01); **C21C 1/00** (2006.01); **C21C 5/28** (2006.01); **C21C 7/06** (2006.01); **C21C 7/068** (2006.01); **C21C 7/10** (2006.01)

CPC (source: EP KR)

**C21C 1/00** (2013.01 - EP); **C21C 5/28** (2013.01 - EP); **C21C 7/0068** (2013.01 - KR); **C21C 7/06** (2013.01 - EP); **C21C 7/064** (2013.01 - KR); **C21C 7/068** (2013.01 - EP); **C21C 7/10** (2013.01 - EP KR)

Designated contracting state (EPC)

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