

Title (en)

METHOD FOR CHARGING RAW MATERIAL INTO BLAST FURNACE

Title (de)

VERFAHREN ZUM BESCHICKEN EINES HOCHOFENS MIT ROHMATERIAL

Title (fr)

PROCÉDÉ POUR CHARGER UNE MATIÈRE PREMIÈRE DANS UN HAUT-FOURNEAU

Publication

**EP 4083235 A1 20221102 (EN)**

Application

**EP 20916867 A 20201127**

Priority

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- JP 2020044357 W 20201127

Abstract (en)

Provided is a method for charging raw material into a blast furnace which enables the formation of coke-mixed ore layers for securing gas permeability in the furnace and maintaining high reduction reactivity. The method for charging raw material into a blast furnace in which a mixture of ore and mixing coke is charged into the blast furnace in two or more separated batches by using a bell-less charging equipment with a charging chute, includes classifying the ore into coarse grain ore and fine grain ore having a smaller average grain diameter than the coarse grain ore, mixing the coarse grain ore with the mixing coke to prepare coke-mixed coarse grain ore, and mixing the fine grain ore with the mixing coke to prepare coke-mixed fine grain ore; and charging, at least in a first batch, the entirety or a part of the coke-mixed coarse grain ore into the blast furnace by tilting the charging chute from a position closer to a center of the blast furnace than a midpoint between the center of the blast furnace and a wall of the blast furnace in a radial direction of the blast furnace toward the wall of the blast furnace.

IPC 8 full level

**C21B 5/00** (2006.01)

CPC (source: EP KR)

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