

Title (en)

METHOD FOR LOADING RAW MATERIAL INTO BLAST FURNACE

Title (de)

VERFAHREN ZUM LADEN EINES ROHMATERIALS IN EINEN HOCHOFEN

Title (fr)

PROCÉDÉ POUR LE CHARGEMENT DE MATIÈRE PREMIÈRE DANS UN HAUT-FOURNEAU

Publication

**EP 2851437 A1 20150325 (EN)**

Application

**EP 13791416 A 20130517**

Priority

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Abstract (en)

According to the present invention, by setting the average layer thickness  $L_{av1}$  at each rotation of the rotating chute, calculated by Expression 1, to be smaller than the thickness  $h$  of coke charged into the shaft central portion of the blast furnace, it is possible to provide a method for charging raw material into a blast furnace that ensures gas permeability in the blast furnace, stabilizes blast furnace operations, and improves thermal efficiency even when the amount of coke is small, or an operation to blow in a large amount of pulverized coal is performed. Expression 1 is  $L_{av1} = V_n / ((R_n^2 - R_{n-1}^2) \Delta)$ , where  $V_n$  is the charged raw material volume ( $m^3$ ) per rotation at the  $n$ th rotation, and  $R_n$  is the falling radius ( $m$ ) of charged raw material at the  $n$ th rotation.

IPC 8 full level

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CPC (source: EP KR)

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