

Title (en)

Process and apparatus for the reduction of iron ore

Title (de)

Verfahren und Vorrichtung zur Eisenerzreduktion

Title (fr)

Procédé et installation de réduction de minerais de fer

Publication

**EP 1024203 A1 20000802 (DE)**

Application

**EP 99250027 A 19990126**

Priority

- EP 99250027 A 19990126
- DE 19739697 A 19970902

Abstract (en)

The installation is intended for iron or reduction with coal, and includes a rotary hearth (1) serving for accommodation of iron ore and coal in any form and mixture. The hearth is covered by a hood which is provided with burners (2) directed onto the hearth. Waste gases (or used heating gases) are leave the furnace through outlets (3) under the hood. These outlets are positioned between the burners in such a way that mixing of the waste gases with fresh heating gases from the burners is avoided. The distances between the burners and the gas outlets are chosen to allow the useful energy of the heating gases to be transferred to the process before they leave the furnace

Abstract (de)

Es wird ein Verfahren und eine Vorrichtung zur Eisenreduktion mit einem Drehherd vorgeschlagen, bei dem die für den Reduktionsprozeß nicht mehr nutzbaren Abgase bzw. Heizgase zur Vermeidung der Mischung mit frischen Heizgasen der Brenner an zwischen den Brennern liegenden Stellen abgezogen werden.

IPC 1-7

**C21B 13/10; F27B 9/16**

IPC 8 full level

**C21B 13/10** (2006.01); **F27B 9/16** (2006.01); **F27B 9/30** (2006.01)

CPC (source: EP)

**C21B 13/10** (2013.01); **C21B 13/105** (2013.01); **F27B 9/16** (2013.01); **F27B 9/3005** (2013.01)

Citation (search report)

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WO2015128416A1

Designated contracting state (EPC)

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**DE 19739697 C1 19990218**; EP 1024203 A1 20000802

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**DE 19739697 A 19970902**; EP 99250027 A 19990126