

Title (en)

PROCESS AND APPARATUS FOR THE DIRECT REDUCTION OF OXIDIC FERRIFEROUS MATERIALS

Publication

**EP 0046145 B1 19841219 (DE)**

Application

**EP 81890126 A 19810721**

Priority

AT 410180 A 19800808

Abstract (en)

[origin: EP0046145A1] 1. Process for the direct reduction of iron sources, in particular iron ores, within a shaft-like muffle furnace (1) comprising combustion chambers (3, 4) surrounding the muffle furnace, in which the iron source is charged, together with lumpy reducing agents and optionally additives, in lumpy form and having a grain size of more than 5 mm, the reaction gases from the muffle furnace (1) are, with their sensible heat, immediately supplied into the combustion chamber(s) (3, 4) surrounding the muffle furnace, characterized in that the muffle furnace (1) is closed in a gas-tight manner and the reaction gases are passed immediately into the combustion chamber(s) (3, 4) through openings (21, 22) in the wall of the muffle furnace (1).

IPC 1-7

**C21B 13/04**

IPC 8 full level

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CPC (source: EP)

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