

Title (en)

Process for thermo-hardening iron pellets on a moving grate.

Title (de)

Verfahren zum Hartbrennen von Eisenerzpellets auf einem Wanderrost.

Title (fr)

Procédé de durcissement par chauffage sur une grille mobile de boulettes de fer.

Publication

**EP 0161721 A1 19851121 (DE)**

Application

**EP 85200718 A 19850507**

Priority

- DE 3418468 A 19840518
- CN 85104327 A 19850608

Abstract (en)

1. A process for hard-burning haematite and/or iron ore pellets which contain heat-consuming fluxes on a travelling grate under oxidizing conditions by means of hot gases passed therethrough, the pellets containing incorporated therein solid carbonaceous material which supplies part of the heat required for hard-burning, characterized in that the Cfix content of the solid carbonaceous material incorporated in the pellets is measured stoichiometrically in such a way that it is up to 50% in excess of that amount required to reduce haematite to magnetite and of that amount required substantially to decompose the heat-consuming fluxes present, and that the hot gases are passed through the pellet bed in the burning zone of the travelling grate under a pressure of 5 to 20 mbar below atmospheric pressure.

Abstract (de)

Zur Senkung des Energieverbrauches während des oxidierenden Brennens wird in die Pellets festes kohlenstoffhaltiges Material in einer Menge eingebunden, dass der Cfix-Gehalt in den Pellets über der stöchiometrischen Menge liegt, die zur Reduktion von Hämatit zu Magnet erforderlich ist, und/oder über der Menge liegt, die zur Zersetzung von wärmeverbrauchenden Zuschlagstoffen erforderlich ist. Die heissen Gase werden in der Brennzone des Wanderrostes mit einem Unterdruck von 5 bis 20 mbar durch das Pellet-Bett geleitet.

IPC 1-7

**C22B 1/24**

IPC 8 full level

**C22B 1/20** (2006.01); **C22B 1/16** (2006.01); **C22B 1/24** (2006.01)

CPC (source: EP)

**C22B 1/2413** (2013.01)

Citation (search report)

- [X] CH 398659 A 19660315 - METALLGESELLSCHAFT AG [DE]
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- [A] US 2758919 A 19560814 - DEVANEY FRED D, et al
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- [A] FR 1490768 A 19670804 - MIDLAND ROSS CORP

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EP0204355A1

Designated contracting state (EPC)

DE FR GB NL SE

DOCDB simple family (publication)

**EP 0161721 A1 19851121**; **EP 0161721 B1 19880504**; AU 4268785 A 19851121; AU 571695 B2 19880421; BR 8502306 A 19860121; CA 1258376 A 19890815; CN 1003943 B 19890419; CN 85104327 A 19861203; DE 3418468 A1 19851121; DE 3562492 D1 19880609; IN 161245 B 19871031; JP S60245732 A 19851205; ZA 853695 B 19870128

DOCDB simple family (application)

**EP 85200718 A 19850507**; AU 4268785 A 19850517; BR 8502306 A 19850516; CA 481829 A 19850517; CN 85104327 A 19850608; DE 3418468 A 19840518; DE 3562492 T 19850507; IN 529CA1984 A 19840725; JP 9352985 A 19850430; ZA 853695 A 19850515