

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

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CPC (source: EP)

C22B 1/2413 (2013.01)

Citation (search report)

- [X] CH 398659 A 19660315 - METALLGESELLSCHAFT AG [DE]
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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