Title (en)

IRON ORE BRIQUETTING

Title (de)

EISENERZBRIKETTIERUNG

Title (fr)

BRIQUETAGE DE MINERAI DE FER

Publication

EP 1425427 A4 20040818 (EN)

Application

EP 02753907 A 20020802

Priority

- AU 0201032 W 20020802
- AU PR678301 A 20010802

Abstract (en)

[origin: WO03012154A1] A method of producing an agglomerated product, such as a briquette, from hydrated iron ores that is suitable for use as a blast furnace or other direct reduction furnace feedstock which includes the steps of: (1) mixing hydrated iron ore and a flux to form an ore/flux mixture; (2) adjusting the water content of the ore prior to or during mixing step (1) to optimise product quality and product yield; (3) pressing the ore/flux mixture into a green agglomerated product; and (4) indurating the green product to form a fired product, the indurating step including heating the green product to a firing temperature at a fast rate.

IPC 1-7

C22B 1/14; C22B 1/24

IPC 8 full level

C22B 1/16 (2006.01); **C21B 5/00** (2006.01); **C21B 11/00** (2006.01); **C22B 1/24** (2006.01); **C22B 1/243** (2006.01); **C22B 1/248** (2006.01)

CPC (source: EP KR US)

B30B 11/16 (2013.01 - EP US); **C22B 1/14** (2013.01 - KR); **C22B 1/24** (2013.01 - EP US); **C22B 1/2413** (2013.01 - EP US); **C22B 1/243** (2013.01 - EP US); **C22B 1/248** (2013.01 - EP US)

Citation (search report)

- [XY] PATENT ABSTRACTS OF JAPAN vol. 0134, no. 17 (C - 636) 14 September 1989 (1989-09-14)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 0120, no. 22 (C - 470) 22 January 1988 (1988-01-22)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 0101, no. 20 (C - 343) 6 May 1986 (1986-05-06)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 0121, no. 86 (C - 500) 31 May 1988 (1988-05-31)
- See references of WO 03012152A1

Cited by

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