

Title (en)

DIRECT REDUCED IRON PELLETS AND USE THEREOF

Title (de)

DIREKTREDUZIERTE EISENPELLETS UND VERWENDUNG DAVON

Title (fr)

PASTILLES DE FER DIRECTEMENT REDUIT ET LEUR UTILISATION

Publication

**EP 4345175 A1 20240403 (EN)**

Application

**EP 22199176 A 20220930**

Priority

EP 22199176 A 20220930

Abstract (en)

The disclosure relates to direct reduced iron (DRI) pellets, wherein the DRI pellets have an average metallization of greater than or equal to 97% and an average BET surface area of less than or equal to 0.5 m<sup>2</sup>/g. The DRI pellets are either essentially free of carbon, or alternatively they comprise less than or equal to 2 wt% carbon. The disclosure further relates to uses of such DRI pellets.

IPC 8 full level

**C21B 13/02** (2006.01)

CPC (source: EP)

**C21B 13/0033** (2013.01); **C21B 13/0073** (2013.01); **C21B 13/0086** (2013.01); **C21B 13/02** (2013.01); **C21B 2100/64** (2017.05)

Citation (applicant)

- WO 2021225500 A1 20211111 - HYBRIT DEV AB [SE]
- KIM GPISTORIUS P.C.: "Strength of Direct Reduced Iron Following Gas-Based Reduction and Carburization", METALLURGICAL AND MATERIALS TRANSACTIONS B, vol. 51, 2020, pages 2628 - 2641, XP037299405, DOI: 10.1007/s11663-020-01958-x

Citation (search report)

- [X] EP 1073772 A1 20010207 - HYLSA SA [MX]
- [A] EP 2024521 A2 20090218 - HYL TECHNOLOGIES SA DE CV [MX]
- [A] EP 0428098 A2 19910522 - HYLSA SA [MX]
- [A] EP 2961854 B1 20170927 - HYL TECH S A DE C V [MX], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4345175 A1 20240403**; WO 2024047259 A1 20240307

DOCDB simple family (application)

**EP 22199176 A 20220930**; EP 2023077066 W 20230929