

Title (en)

Agent for desulphuration of cast iron consisting of magnesium coated with calcium carbide.

Title (de)

Entschwefelungsmittel für Gusseisen, bestehend aus Magnesium mit einem Kalziumkarbidüberzug.

Title (fr)

Désulfurant pour fonte constitué de magnésium et de carbure de calcium enrobés.

Publication

**EP 0514294 A1 19921119 (FR)**

Application

**EP 92420150 A 19920511**

Priority

FR 9106612 A 19910516

Abstract (en)

Product for desulphurisation of pig iron, consisting essentially of a mixture of calcium carbide and magnesium particles. The magnesium particles are coated with a layer of inorganic product to which a binder is added. The inorganic product coating the magnesium is also preferably calcium carbide. The diameters of the magnesium and calcium carbide particles are chosen so that they are proportional to the mean densities of the coated magnesium particles and of the calcium carbide particles. The calcium carbide particles themselves may consist of finer particles agglomerated by a binder. The binder is preferably a fatty ester, of sharp and relatively high melting point. The desulphurising mixture according to the invention is injected with the lance into the pig iron baths. It has the advantage of being less reactive towards moisture and of not segregating during transport and storage.

IPC 1-7

**C21C 1/02**; **C21C 1/10**; **C21C 7/064**

IPC 8 full level

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CPC (source: EP)

**C21C 1/025** (2013.01); **C21C 1/10** (2013.01); **C21C 7/0645** (2013.01)

Citation (search report)

- [A] LU 70014 A1 19741001
- [AD] DE 3831831 C1 19891102
- [AD] EP 0164592 A1 19851218 - SUEDEDEUTSCHE KALKSTICKSTOFF [DE], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 3, no. 152 (C-67)(161) 14 Décembre 1979 & JP-A-54 131 520 ( DENKI KAGAKU KOGYO K.K. ) 10 Décembre 1979
- [A] PATENT ABSTRACTS OF JAPAN vol. 4, no. 61 (C-9)(543) 8 Mai 1980 & JP-A-55 028 305 ( IBIGAWA DENKI KOGYO K.K. ) 28 Février 1980

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