

Title (en)

High-resistance rod and its production method.

Title (de)

Mahlstab mit hoher Beständigkeit und Verfahren zum Herstellen.

Title (fr)

Barre de broyage à haute résistance et son procédé de fabrication.

Publication

EP 0120748 A1 19841003 (FR)

Application

EP 84400405 A 19840229

Priority

FR 8303327 A 19830301

Abstract (en)

[origin: ES8504485A1] The invention provides a ferrous metal crushing bar, coming directly from casting with controlled solidification, characterized in that it has a fine grain surface structure and a core with radially orientated dendritic structure, in that it comprises, in percent by weight, between about 1.1 and 3% of carbon, between about 3 and 30% of chromium, between about 0.3 and 1.5% of magnesium and between about 0.3 and 1% of silicon, and in that it comprises at least 10% by volume of carbides.

Abstract (fr)

L'invention concerne une barre de broyage en métal ferreux, issue directement d'une coulée à solidification dirigée, caractérisée en ce qu'elle présente une structure de surface à grain fin et un coeur à structure dendritique orientée radialement, en ce qu'elle comprend, en % en poids, entre environ 1,1 et 3% de carbone, entre environ 3 et 30% de chrome, entre environ 0,3 et 1,5% de manganèse et entre environ 0,3 et 1% de silicium, et en ce qu'elle comporte au moins 10% en volume de carbures.

IPC 1-7

B02C 17/20; **C22C 38/36**

IPC 8 full level

B02C 17/20 (2006.01); **C22C 38/36** (2006.01)

CPC (source: EP US)

B02C 17/20 (2013.01 - EP US); **C22C 38/36** (2013.01 - EP US); **Y10T 29/49988** (2015.01 - EP US)

Citation (search report)

- [A] EP 0014655 A1 19800820 - THOME CROMBACK ACIERIES [FR]
- [A] US 3295965 A 19670103 - WILLEY GORDON E, et al
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- [A] FR 2089166 A5 19720107 - PHILIPS NV
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