

Title (en)

A free machining, deformed, solid steel product.

Title (de)

Zerspanbares, verformtes, festes Stahl-Erzeugnis.

Title (fr)

Produit solide et déformé en acier de décolletage.

Publication

EP 0533212 A1 19930324 (EN)

Application

EP 92118024 A 19871224

Priority

- EP 92118024 A 19871224
- US 3433187 A 19870403

Abstract (en)

A free machining, deformed, solid steel product made from molten steel containing dissolved oxygen, said solid steel product comprising: a microstructure including oxygen-containing, manganese sulfide inclusions; said manganese sulfide inclusions having a relatively globular shape due to the presence of 60-150 mg/kg (ppm) dissolved oxygen in the molten steel from which said steel product was made; and said microstructure being devoid of machinability impairing oxides of solid deoxidizing agents, in amounts sufficient to offset substantially the enhanced machinability resulting from said globular shape of the manganese sulfide inclusions.

IPC 1-7

C21C 7/00; **C21C 7/06**; **C22C 38/60**

IPC 8 full level

C21C 7/06 (2006.01); **C21C 7/072** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP)

C21C 7/06 (2013.01); **C21C 7/072** (2013.01); **C22C 38/60** (2013.01)

Citation (search report)

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- [A] DD 238249 A1 19860813 - MAXHUETTE UNTERWELLENBORN [DD]
- [A] BERG- UND HÜTTENMÄNNISCHE MONATSHEFTE, vol. 117, no. 9, 1972, WIEN, AT pages 301 - 307 C. FINK ET AL. 'Einfluss der Herstellungsbedingungen ...'
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