

Title (en)

Process for obtaining an improved resulfurized fine-austenitic-grain steel

Title (de)

Verfahren zur Herstellung von aufgeschwefeltem Stahl mit feiner austenitischer Körnung

Title (fr)

Procédé pour la fabrication d'un acier resulfuré à grain fin austénitique

Publication

EP 0838534 B1 20010718 (EN)

Application

EP 97203234 A 19971016

Priority

IT MI962219 A 19961025

Abstract (en)

[origin: EP0838534A1] Disclosed is a particular type of fine-austenitic-grain globular-sulfides resulfurized carbon and/or alloy steel suitable for casehardening and hardening-tempering treatments, with the addition of transition metals of Group III (rare earth metals or lanthanides), in form of non-coated wire or wire coated with metals, metal alloys or still other coatings, such as ceramic coating or other types of coatings. The addition of rare earths as metal wire to ingot mould or tundish allows rare earth elements to be perfectly diffused and homogenized throughout the product and globular sulfides to be homogeneously distributed as well throughout the cast section; the resulting steel displays better machinability properties than steel produced by means of traditional techniques.

IPC 1-7

C22C 38/00; **C22C 38/60**

IPC 8 full level

C22C 38/00 (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP)

C22C 38/002 (2013.01); **C22C 38/60** (2013.01)

Citation (examination)

R.KIESSLING, N.LANGE: "Non-metallic inclusions in steel", 1997, THE INSTITUTE OF MATERIALS, LONDON

Cited by

EP1947206A4; US7038098B2; US7087802B2; US6916756B2; US8052925B2; US9091433B2

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