

Title (en)
CAST IRON WITH IMPROVED HIGH TEMPERATURE PROPERTIES

Title (de)
GUSSEISEN MIT VERBESSERTEN HOCHTEMPERATUREIGENSCHAFTEN

Title (fr)
FONTE DOTEE DE PROPRIETES AMELIOREES A HAUTE TEMPERATURE

Publication
EP 1877593 A2 20080116 (EN)

Application
EP 06752290 A 20060504

Priority

- US 2006017341 W 20060504
- US 67895005 P 20050505

Abstract (en)
[origin: WO2006121826A2] A nodular, compacted graphite or other hybrid or duplex graphite morphology cast high silicon iron is disclosed which contains up to 1.5% tungsten, up to 0.8% vanadium, and up to 1.2% niobium; and at least 60.0% iron, all percentages are based on the total weight of the composition. This cast iron exhibits high strength and good ductility over a wide temperature range compared to the conventional SiMo ductile iron. The compositions may further contain, up to 1.5% molybdenum and up to 1.0 % chromium to offer improvements in material strength. The compositions may include 0.2 to 0.5% by weight aluminum and up to 1.2% chromium for further oxidation resistance and 0.5 to 5.0% nickel for corrosion resistance.

IPC 8 full level
C22C 37/00 (2006.01)

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See references of WO 2006121826A2

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