

Title (en)
Spheroidal cast iron particularly for piston rings and method for its production

Title (de)
Kugelgraphitgusseisen für Kolbenringe und Verfahren zu seiner Herstellung

Title (fr)
Fonte nodulaire pour segments de piston et procédé pour la fabrication de ladite fonte

Publication
EP 1384794 B1 20060524 (EN)

Application
EP 03016555 A 20030724

Priority
IT MI20021670 A 20020726

Abstract (en)
[origin: EP1384794A1] A spheroidal cast iron, particularly for piston rings for pistons of engines, with a particular alloyed chemical composition and subjected to a heat treatment known as austempering, which comprises an austenitization treatment followed by an isothermal hardening treatment, has mechanical characteristics that are comparable with those of the steel currently used to produce piston rings, while maintaining the best tribological and self-lubrication characteristics of spheroidal cast irons, and a process suitable to obtain said spheroidal cast iron.

IPC 8 full level
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CPC (source: EP US)
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Cited by
CN106119684A; EP1566454A1; CN109811108A; RU2635032C1; CN111020362A; RU2659534C1; CN103725950A; RU2627316C1; DE102004040055A1; CN110983172A; DE102004040056A1; CN111004968A; EP2780488A4; CN105838975A; CN108950370A; CN102851572A; RU2643768C1; RU2652903C1; CN114603089A; WO2006072663A3; WO2006018053A1; WO2006018054A1; US9169526B2; US9644245B2

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