

Title (en)

High strength large steel forging

Title (de)

Grosse Stahlschmieden mit hoher festigkeit

Title (fr)

Acier de Forgeage de grande dimension et de grande tenue

Publication

**EP 2671963 B1 20141008 (EN)**

Application

**EP 13002083 A 20130419**

Priority

JP 2012129381 A 20120606

Abstract (en)

[origin: EP2671963A1] A high strength large steel forging of the present invention has highly balanced strength and toughness, and has high fatigue strength. The high strength large steel forging includes compositions that specify contents of C, Si, Mn, Ni, Cr, Mo, V, and Al, and S as an unavoidable impurity; in which the high strength large steel forging consists of a martensitic structure or a mixed structure of martensite and bainite; a grain size of prior austenite is 19  $\mu\text{m}$  or more and 70 $\mu\text{m}$  or less; and a maximum block size of martensite is 15  $\mu\text{m}$  or less and a minimum block size of martensite is 0.5  $\mu\text{m}$  or more.

IPC 8 full level

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CPC (source: EP KR)

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