

Title (en)

HEAT-RESISTANT STEEL PRODUCT AND METHOD FOR PRODUCTION THEREOF

Title (de)

HITZEFESTES STAHLPRODUKT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

PRODUIT EN ACIER RÉSISTANT À LA CHALEUR ET PROCÉDÉ POUR LA PRODUCTION DE CELUI-CI

Publication

EP 1878810 B1 20140115 (EN)

Application

EP 06746178 A 20060428

Priority

- JP 2006309347 W 20060428
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- JP 2006118826 A 20060424

Abstract (en)

[origin: EP1878810A1] The present invention provides first resistant steel superior in fire resistance having less variation in material quality and exhibiting a yield strength of 2/3 or more of that at ordinary temperature even at 600 °C and a method of production of the same, that is, fire resistant steel characterized by containing, by mass%, C: 0.01 to 0.03%, Mn: 0.2 to 1.7%, Si: 0.5% or less, Cu: 0.7 to 2%, Mo: 0.8% or less, Nb: 0.01 to 0.3%, Ti: 0.005 to 0.03%, N: 0.006% or less, B: 0.0003 to 0.003%, V: 0.2% or less, Cr: 1% or less, Al: 0.1% or less, P: 0.03% or less, and S: 0.02% or less, containing Ni by mass ratio of Ni/Cu of 0.6 to 0.9, and comprising a balance of Fe and unavoidable impurities, and having a yield strength at 600 °C of 60% of the yield strength at 21 °C.

IPC 8 full level

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Citation (examination)

- EP 1209244 A1 20020529 - KAWASAKI STEEL CO [JP]
- EP 1001041 A1 20000517 - KAWASAKI STEEL CO [JP]
- JP 2002146462 A 20020522 - NIPPON STEEL CORP, et al

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