

Title (en)

Heat-resistant austenitic stainless steel and a production process thereof

Title (de)

Hitzebeständiger austenitischer rostfreier Stahl und Verfahren zu seiner Herstellung

Title (fr)

Acier austénitique inoxydable résistant aux températures élevées et procédé pour sa fabrication

Publication

EP 1577414 A2 20050921 (EN)

Application

EP 05004809 A 20050304

Priority

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- JP 2005026158 A 20050202

Abstract (en)

To provide a heat-resistant austenitic stainless steel having high-temperature strength and sag-resistance capable of resisting working temperatures of not less than 550 DEG C as well as being low in cost, and a production process thereof. The steel consistent with the present invention contains not more than 0.1wt% C, less than 1.0wt% Si, 1.0wt% to 10.0wt% Mn, not more than 0.03wt% P, not more than 0.01wt% S, 0.01wt% to 3.0wt% Cu, 7.0wt% to 15.0wt% Ni, 15.0wt% to 25.0wt% Cr, 0.5wt% to 5.0wt% Mo, not more than 0.03wt% Al, 0.4wt% to 0.8wt% N, and the remainder substantially consisting of Fe and unavoidable impurities.

IPC 1-7

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CPC (source: EP US)

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Cited by

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