

Title (en)

Surface-blasted steam generator parts or power plant components

Title (de)

Oberflächengestrahlte Dampferzeugerbauteile oder Kraftwerkskomponenten

Title (fr)

Composants grenillés d'une chaudière ou d'une centrale électrique

Publication

**EP 1985919 B1 20140219 (DE)**

Application

**EP 07150101 A 20071219**

Priority

DE 102006062348 A 20061222

Abstract (en)

[origin: US2008149047A1] A steam boiler module or steam boiler assembly or a power station component is composed essentially of an alloyed, in particular chromium-containing material and consists, at least in part of a material which has been treated by surface blasting (shot-peening/shot blasting). With steam boilers having outlet temperatures of  $\geq 700^{\circ}\text{C}$ . in power station components, in particular steam generator modules, the material provides an adequate strength, in particular long-term rupture strength and an adequate corrosion resistance as well as oxidation resistance. The material has a ferritic or martensitic or austenitic structure having a mean chromium content  $\leq 18\%$  by weight, and at least a module surface or module group surface or component surface that has been treated, at least in part, by surface blasting (shot-peening/shot blasting).

IPC 8 full level

**B24C 1/10** (2006.01); **C21D 6/00** (2006.01); **C21D 7/06** (2006.01); **C21D 9/08** (2006.01); **F22B 37/04** (2006.01)

CPC (source: EP US)

**B24C 1/10** (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 7/06** (2013.01 - EP US); **C21D 9/08** (2013.01 - EP US); **F22B 37/04** (2013.01 - EP US); **C21D 2211/001** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C21D 2211/008** (2013.01 - EP US); **Y10T 428/12993** (2015.01 - EP US)

Citation (examination)

JP 2005298878 A 20051027 - NAT INST FOR MATERIALS SCIENCE, et al

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