

Title (en)  
STAINLESS STEEL ALLOYS, TURBOCHARGER TURBINE HOUSINGS FORMED FROM THE STAINLESS STEEL ALLOYS, AND METHODS FOR MANUFACTURING THE SAME

Title (de)  
ROSTFREIE STAHLLEGIERUNGEN, AUS DEN ROSTFREIEN STAHLLEGIERUNGEN GEFORMTE TURBOLADERTURBINENGEHÄUSE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
ALLIAGES D'ACIER INOXYDABLE, CARTERS DE TURBINE DE TURBOCOMPRESSEUR FORMÉS À PARTIR D'ALLIAGES D'ACIER INOXYDABLE ET PROCÉDÉS DE FABRICATION ASSOCIÉS

Publication  
**EP 3196327 A1 20170726 (EN)**

Application  
**EP 16152144 A 20160120**

Priority  
EP 16152144 A 20160120

Abstract (en)  
Disclosed is an austenitic stainless steel alloy that includes, by weight, about 22% to about 28% chromium, about 3.5% to about 6.5% nickel, about 1% to about 6% manganese, about 0.5% to about 2.5% silicon, about 0.3% to about 0.6% carbon, about 0.2% to about 0.8% nitrogen, and a balance of iron. Molybdenum, niobium, and tungsten are excluded. The alloy is suitable for use in turbocharger turbine housing applications for temperature up to about 980°C.

IPC 8 full level  
**C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/34** (2006.01); **C22C 38/38** (2006.01); **F01D 25/24** (2006.01)

CPC (source: EP)  
**C22C 38/001** (2013.01); **C22C 38/002** (2013.01); **C22C 38/005** (2013.01); **C22C 38/02** (2013.01); **C22C 38/34** (2013.01); **C22C 38/38** (2013.01); **F01D 25/005** (2013.01); **F05D 2220/40** (2013.01); **F05D 2300/132** (2013.01)

Citation (search report)  
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Designated contracting state (EPC)  
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