

Title (en)
SUPER AUSTENITIC MATERIAL

Title (de)
SUPERAUSTENITISCHER WERKSTOFF

Title (fr)
MATÉRIAU SUPERAUSTÉNITIQUE

Publication
EP 3899063 C0 20230830 (DE)

Application
EP 19829563 A 20191219

Priority
• DE 102018133255 A 20181220
• EP 2019086384 W 20191219

Abstract (en)
[origin: WO2020127788A1] The invention relates to a superaustenitic material consisting of an alloy with the following components (all indications in wt.%): the elements carbon (C) 0.01-0.2, silicon (Si) < 0.51, manganese (Mn) 3.0-8.0, phosphorus (P) < 0.0, sulphur (S) < 0.00, iron (Fe) residuum, chrome (Cr) 23.0-30.0, molybdenum (Mo) 2.0-4.0, nickel (Ni) 10.0-16.0, vanadium (V) < 0, tungsten (W) < 0, copper (Cu) < 0.52, cobalt (Co) < 5.0, titanium (Ti) < 0, aluminium (Al) < 0.2, niobium (Nb) < 0, boron (B) < 0.01, and nitrogen (N) 0.50-0.90.

IPC 8 full level
C22C 38/46 (2006.01); **C21D 6/00** (2006.01); **C21D 7/02** (2006.01); **C21D 7/10** (2006.01); **C21D 8/02** (2006.01); **C21D 9/08** (2006.01); **C21D 9/46** (2006.01); **C22C 38/22** (2006.01); **C22C 38/38** (2006.01); **C22C 38/40** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 33/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/52** (2006.01); **C22C 38/54** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP US)
C21D 6/004 (2013.01 - EP); **C21D 6/005** (2013.01 - EP); **C21D 7/02** (2013.01 - EP US); **C21D 7/10** (2013.01 - EP); **C21D 7/13** (2013.01 - US); **C21D 8/02** (2013.01 - EP); **C21D 8/0205** (2013.01 - US); **C21D 8/0236** (2013.01 - EP); **C21D 8/0247** (2013.01 - EP); **C21D 8/0263** (2013.01 - EP); **C21D 8/0273** (2013.01 - EP US); **C21D 9/08** (2013.01 - EP); **C21D 9/46** (2013.01 - EP); **C22C 38/001** (2013.01 - US); **C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - US); **C22C 38/04** (2013.01 - US); **C22C 38/22** (2013.01 - EP); **C22C 38/38** (2013.01 - EP); **C22C 38/40** (2013.01 - EP); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP); **C22C 38/52** (2013.01 - US); **C22C 38/54** (2013.01 - US); **C22C 38/58** (2013.01 - US); **C21D 2211/001** (2013.01 - EP US); **C22C 33/0285** (2013.01 - EP); **C22C 38/001** (2013.01 - EP); **C22C 38/48** (2013.01 - EP); **C22C 38/50** (2013.01 - EP); **C22C 38/52** (2013.01 - EP); **C22C 38/54** (2013.01 - EP); **C22C 38/58** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Participating member state (EPC – UP)
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)
WO 2020127788 A1 20200625; BR 112021011844 A2 20210831; BR 112021011844 A8 20230509; BR 112021011849 A2 20210908; CA 3122044 A1 20200625; CA 3124189 A1 20200625; CA 3124189 C 20231031; CN 113544294 A 20211022; CN 113544295 A 20211022; DE 102018133255 A1 20200625; EA 202191412 A1 20210928; EA 202191413 A1 20210928; EP 3899063 A1 20211027; EP 3899063 B1 20230830; EP 3899063 C0 20230830; EP 3899064 A1 20211027; EP 3899064 B1 20230830; EP 3899064 C0 20230830; ES 2956332 T3 20231219; ES 2957403 T3 20240119; JP 2022514920 A 20220216; JP 2022522092 A 20220414; PL 3899063 T3 20231204; PL 3899064 T3 20231120; US 2022145436 A1 20220512; US 2023332282 A1 20231019; US 2024052469 A2 20240215; WO 2020127789 A1 20200625

DOCDB simple family (application)
EP 2019086384 W 20191219; BR 112021011844 A 20191219; BR 112021011849 A 20191219; CA 3122044 A 20191219; CA 3124189 A 20191219; CN 201980092768 A 20191219; CN 201980092769 A 20191219; DE 102018133255 A 20181220; EA 202191412 A 20191219; EA 202191413 A 20191219; EP 19829563 A 20191219; EP 19829564 A 20191219; EP 2019086385 W 20191219; ES 19829563 T 20191219; ES 19829564 T 20191219; JP 2021536111 A 20191219; JP 2021536112 A 20191219; PL 19829563 T 20191219; PL 19829564 T 20191219; US 201917413986 A 20191219; US 201917414008 A 20191219