

Title (en)
TITANIUM SINTERED BODY

Title (de)
TITANSINTERKÖRPER

Title (fr)
CORPS FRITTÉ DE TITANE

Publication
EP 3138433 A1 20170308 (EN)

Application
EP 16187193 A 20160905

Priority
• JP 2015176071 A 20150907
• JP 2016107641 A 20160530

Abstract (en)
A titanium sintered body contains an α -phase and a β -phase as crystal structures, wherein the average grain size of the α -phase in a cross section is 3 μm or more and 30 μm or less, and an area ratio occupied by the α -phase in a cross section is 70% or more and 99.8% or less. In the titanium sintered body, it is preferred that the average aspect ratio of the α -phase in a cross section is 1 or more and 3 or less. It is also preferred that the titanium sintered body contains titanium as a main component, and also contains an α -phase stabilizing element and a β -phase stabilizing element.

IPC 8 full level
A43C 11/24 (2006.01); **A44C 25/00** (2006.01); **B22F 5/10** (2006.01); **C22C 14/00** (2006.01); **G04B 37/00** (2006.01); **G04B 37/22** (2006.01); **B22F 1/05** (2022.01); **B22F 1/102** (2022.01); **B22F 3/10** (2006.01); **B22F 3/15** (2006.01); **B22F 3/22** (2006.01); **C22C 1/04** (2006.01)

CPC (source: CN EP US)
B22F 3/10 (2013.01 - CN); **B22F 5/10** (2013.01 - EP US); **C22C 14/00** (2013.01 - EP US); **G04B 37/22** (2013.01 - EP US); **A44C 27/002** (2013.01 - EP US); **B22F 1/05** (2022.01 - CN EP US); **B22F 1/102** (2022.01 - CN EP US); **B22F 3/1007** (2013.01 - EP US); **B22F 3/15** (2013.01 - EP US); **B22F 3/225** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US); **C22C 1/0458** (2013.01 - EP US)

Citation (applicant)
JP H0892674 A 19960409 - SEIKO INSTR INC, et al

Citation (search report)
• [X] US 2011277891 A1 20111117 - CLEMENS HELMUT [AT], et al
• [X] JP 2012007223 A 20120112 - SEIKO EPSON CORP

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3138433 A1 20170308; **EP 3138433 B1 20191106**; CN 106493363 A 20170315; CN 106493363 B 20210507; US 2017067137 A1 20170309

DOCDB simple family (application)
EP 16187193 A 20160905; CN 201610806098 A 20160906; US 201615251528 A 20160830