

Title (en)
TIAL ALLOY AND PRODUCTION METHOD THEREFOR

Title (de)
TIAL-LEGIERUNG UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
ALLIAGE TIAL ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 3974551 A4 20230125 (EN)

Application
EP 20808685 A 20200318

Priority
• JP 2019096648 A 20190523
• JP 2020011935 W 20200318

Abstract (en)
[origin: US2022017995A1] A TiAl alloy contains 48 at % or more and 50 at % or less of Al, 1 at % or more and 3 at % or less of Nb, 0.3 at % or more and 1 at % or less of Zr, 0.05 at % or more and 0.3 at % or less of B, and the balance being Ti and inevitable impurities.

IPC 8 full level
C22C 14/00 (2006.01); **B21J 5/00** (2006.01); **B22F 3/15** (2006.01); **C22C 1/02** (2006.01); **C22C 1/10** (2006.01); **C22F 1/00** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP US)
B21J 5/00 (2013.01 - EP); **B22F 3/15** (2013.01 - EP US); **C22C 1/02** (2013.01 - EP); **C22C 1/1036** (2013.01 - EP); **C22C 1/1094** (2013.01 - EP); **C22C 14/00** (2013.01 - EP US); **C22F 1/183** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP); **C22F 1/00** (2013.01 - EP)

Citation (search report)
• [A] RU 2606368 C1 20170110 - FED GOSUDARSTVENNOE UNITARNOE PREDPRIYATIE VSEROSIJSKIJ NAUCHNO-ISSLEDOVATELSKIJ INST AVIATIONNYKH [RU]
• [A] RU 2633135 C1 20171011 - FED GOSUDARSTVENNOE AVTONOMNOE OBRAZOVATELNOE UCHREZHDENIE VYSSHEGO OBRAZOVANIYA NATSIONALNYJ ISSLED [RU]
• [A] EP 3269838 A1 20180117 - MTU AERO ENGINES AG [DE]
• [A] EP 2075349 A2 20090701 - GEESTHACHT GKSS FORSCHUNG [DE]
• [A] B. P. BEWLAY ET AL: "TiAl alloys in commercial aircraft engines", MATERIALS AT HIGH TEMPERATURES., vol. 33, no. 4-5, 28 June 2016 (2016-06-28), GB, pages 549 - 559, XP055425624, ISSN: 0960-3409, DOI: 10.1080/09603409.2016.1183068
• See references of WO 2020235200A1

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

DOCDB simple family (publication)
US 2022017995 A1 20220120; EP 3974551 A1 20220330; EP 3974551 A4 20230125; EP 3974551 B1 20231213; JP 7226535 B2 20230221; JP WO2020235200 A1 20201126; WO 2020235200 A1 20201126

DOCDB simple family (application)
US 202117449133 A 20210928; EP 20808685 A 20200318; JP 2020011935 W 20200318; JP 2021520073 A 20200318