

Title (en)
METASTABLE BETA-TITANIUM ALLOY

Title (de)
METASTABILE BETA-TITANLEGIERUNG

Title (fr)
ALLIAGE METASTABLE DE BETA-TITANE

Publication
EP 1449929 A4 20050202 (EN)

Application
EP 02783880 A 20021118

Priority
• RU 0200502 W 20021118
• RU 2001131383 A 20011122

Abstract (en)
[origin: EP1449929A1] Metastable beta -titanium alloy contains, in mass %: from 1.5 to 3.5 aluminum; from 4.5 to 8.0 molybdenum; from 1.0 to 3.5 vanadium; from 1.5 to 3.8 iron; titanium balance. This alloy combines high strength and ductility. This allows to use it for production of a wide range of critical parts including fastener components and different coil springs (e.g. in automobile industry).

IPC 1-7
C22C 14/00

IPC 8 full level
C22C 14/00 (2006.01)

CPC (source: EP US)
C22C 14/00 (2013.01 - EP US)

Citation (search report)
• [Y] US 3615378 A 19711026 - BOMBERGER HOWARD B JR, et al
• [A] GB 1333729 A 19731017 - LOCKHEED AIRCRAFT CORP
• [Y] PATENT ABSTRACTS OF JAPAN vol. 0175, no. 89 (C - 1124) 27 October 1993 (1993-10-27)
• [A] PATENT ABSTRACTS OF JAPAN vol. 0180, no. 82 (C - 1164) 10 February 1994 (1994-02-10)
• [A] DATABASE INSPEC [online] THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; 1982, CHAIT R ET AL: "An evaluation of direct aging to achieve optimum mechanical properties for the metastable beta Ti-8Mo-8V-2Fe-3Al alloy", XP002306060, Database accession no. 1991119 & TITANIUM AND TITANIUM ALLOYS. SCIENTIFIC AND TECHNOLOGICAL ASPECTS. PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON TITANIUM 18-21 MAY 1976 MOSCOW, USSR, 1982, Titanium and Titanium Alloys. Scientific and Technological Aspects. Proceedings of the Third International Conference on Titanium Plenum New York, NY, USA, pages 1717 - 1729 vol., ISBN: 0-306-40191-6
• See references of WO 03044234A1

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