

Title (en)
TWO PHASE TITANIUM ALUMINIDE ALLOY

Title (de)
TITANALUMINIDLEGIERUNG MIT ZWEI PHASEN

Title (fr)
ALLIAGE D'ALUMINURE DE TITANE A DEUX PHASES

Publication
EP 1066415 A1 20010110 (EN)

Application
EP 99935269 A 19990202

Priority
• US 9902212 W 19990202
• US 1748398 A 19980202
• US 17410398 A 19981016

Abstract (en)
[origin: WO9951787A1] A two phase titanium aluminide alloy having a lamellar microstructure with little intercolony structures. The alloy can include fine particles such as boride particles at colony boundaries and/or grain boundary equiaxed structures. The alloy can include alloying additions such as ≤ 10 at % W, Nb and/or Mo. The alloy can be free of Cr, V, Mn, Cu and/or Ni and can include, in atomic %, 45 to 55 % Ti, 40 to 50 % Al, 1 to 5 % Nb, 0.3 to 2 % W, up to 1 % Mo and 0.1 to 0.3 % B. In weight %, the alloy can include 57 to 60 % Ti, 30 to 32 % Al, 4 to 9 % Nb, up to 2 % Mo, 2 to 8 % W and 0.02 to 0.08 % B.

IPC 1-7
C22C 14/00

IPC 8 full level
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CPC (source: EP KR)
B22F 3/23 (2013.01 - EP); **C22C 1/0458** (2013.01 - EP); **C22C 1/047** (2023.01 - EP); **C22C 14/00** (2013.01 - EP KR); **C22C 29/005** (2013.01 - EP); **C22C 32/00** (2013.01 - EP); **C22F 1/183** (2013.01 - EP); **B22F 2998/10** (2013.01 - EP)

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WO 9951787 A1 19991014; **WO 9951787 A9 20000622**; AT E221137 T1 20020815; AU 5078399 A 19991025; AU 751819 B2 20020829; BR 9908529 A 20001205; CA 2319505 A1 19991014; CA 2319505 C 20091006; CN 1100153 C 20030129; CN 1292038 A 20010418; DE 69902245 D1 20020829; DE 69902245 T2 20030327; EP 1066415 A1 20010110; EP 1066415 A4 20010509; EP 1066415 B1 20020724; ID 26231 A 20001207; JP 2002510750 A 20020409; JP 4664500 B2 20110406; KR 100641905 B1 20061106; KR 20010040579 A 20010515; NO 20003891 D0 20000728; NO 20003891 L 20001002; NO 333617 B1 20130722

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