

Title (en)

THIN ALLOY SHEET OF LOW THERMAL EXPANSION AND SHADOW MASK USING THE SAME

Title (de)

DÜNNES BLECH AUS LEGIERUNG MIT NIEDRIGER THERMISCHER AUSDEHNUNG UND DARAUS HERGESTELLTE LOCHMASKE

Title (fr)

FINE FEUILLE D'ALLIAGE A FAIBLE DILATATION THERMIQUE, ET MASQUE PERFORE FAISANT INTERVENIR SON UTILISATION

Publication

EP 1403393 A4 20050105 (EN)

Application

EP 02745824 A 20020704

Priority

- JP 0206785 W 20020704
- JP 2001204212 A 20010705

Abstract (en)

[origin: EP1403393A1] Thin alloy sheet having a low thermal expansion which has a substantial chemical composition in mass %: Ni: 35.0 to 37.0%, Mn: 0.01 to 0.09%, Si: 0.01 to 0.04%, Al: 0.01 to 0.04% and balance: Fe, with the proviso that Mn/S is 20 to 300 and Mn + Si + Al is less than or equals 0.15%, and has an average thermal expansion coefficient in the range of 20 to 100 [deg] C of 1.0×10^{-6} /K or less.

IPC 1-7

C22C 38/08

IPC 8 full level

C22C 38/04 (2006.01); **C22C 38/08** (2006.01); **H01J 29/07** (2006.01); **C21D 8/02** (2006.01)

CPC (source: EP KR)

C22C 38/04 (2013.01 - EP); **C22C 38/08** (2013.01 - EP KR); **H01J 29/07** (2013.01 - EP); **C21D 8/0205** (2013.01 - EP); **H01J 2229/0733** (2013.01 - EP)

Citation (search report)

- [X] DE 19920144 C1 20000803 - KRUPP VDM GMBH [DE]
- See references of WO 03004715A1

Cited by

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Designated contracting state (EPC)

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EP 1403393 A1 20040331; **EP 1403393 A4 20050105**; CN 1200130 C 20050504; CN 1464915 A 20031231; KR 100519615 B1 20051007; KR 20030024922 A 20030326; WO 03004715 A1 20030116

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