

Title (en)
Iron-nickel alloy sheet for shadow mask

Title (de)
Bleche aus Eisen-Nickel Legierung für Schattenmaske

Title (fr)
Feuille d'alliage fer-nickel pour masque d'ombre

Publication
EP 0626461 B1 20000712 (EN)

Application
EP 94100509 A 19940114

Priority
• JP 15135193 A 19930528
• JP 21871393 A 19930902

Abstract (en)
[origin: EP0626461A1] An alloy sheet for making a shadow mask consists essentially of 34 to 38wt.% Ni, 0.07wt.% or less Si, 0.001wt.% or less B, 0.003wt.% or less O, 0.002wt.% or less N, and the balance being Fe and inevitable impurities. The alloy sheet has an average austenite grain size (Dav) of 10.5 to 15.0 μ m, a ratio of a maximum size to the minimum size of austenite grains (Dmax/Dmin) of 1 to 15, a Vickers hardness (Hv) of 165 to 220 and satisfying a relation of $10 \times D_{av} + 80 \geq H_v \geq 10 \times D_{av} + 50$; and gathering degree of crystal planes on said alloy sheet surface of 14% or less for {111} plane, 5 to 75% for {100} plane, 5 to 40% for {110} plane, 20% or less for {311} plane, 20% or less for {331} plane, 20% or less for {210} plane, and 20% or less for {211} plane. <IMAGE>

IPC 1-7
C22C 38/08; **H01J 29/07**

IPC 8 full level
C22C 38/08 (2006.01); **H01J 29/07** (2006.01)

CPC (source: EP)
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Cited by
EP1176221A3; GB2336713A; GB2336713B; GB2336467A; GB2336467B; GB2336939A; GB2336939B

Designated contracting state (EPC)
DE FR GB

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EP 0626461 A1 19941130; **EP 0626461 B1 20000712**; CN 1035890 C 19970917; CN 1096330 A 19941214; DE 69425189 D1 20000817; DE 69425189 T2 20010322; KR 970003641 B1 19970320

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EP 94100509 A 19940114; CN 94103320 A 19940318; DE 69425189 T 19940114; KR 19940005991 A 19940324