

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 A1 19941130 (EN)**

Application  
**EP 94100509 A 19940114**

Priority  
• JP 15135193 A 19930528  
• JP 21871393 A 19930902

Abstract (en)  
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  $\mu$ 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)  
**C22C 38/08** (2013.01); **H01J 29/07** (2013.01); **H01J 2229/0733** (2013.01)

Citation (search report)  
• [PY] EP 0552800 A1 19930728 - NIPPON KOKAN KK [JP]  
• [PY] EP 0561120 A1 19930922 - NIPPON KOKAN KK [JP]  
• [Y] FR 2668498 A1 19920430 - NIPPON KOKAN KK [JP]  
• [Y] FR 2664908 A1 19920124 - NIPPON KOKAN KK [JP]

Cited by  
EP1176221A3; GB2336713A; GB2336713B; GB2336467A; GB2336467B; GB2336939A; GB2336939B

Designated contracting state (EPC)  
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