

Title (en)  
Iron-cobalt-nickel alloy and its use for the manufacture of a shadow mask

Title (de)  
Eisen-Kobalt-Nickellegierung und Verwendung für die Herstellung von Lochmasken

Title (fr)  
Alliage fer-cobalt-nickel et utilisation pour la fabrication d'un masque d'ombre

Publication  
**EP 0745697 B1 20000223 (FR)**

Application  
**EP 96400734 A 19960405**

Priority  
FR 9505362 A 19950505

Abstract (en)  
[origin: EP0745697A1] A novel FeNiCo alloy has the compsn. (by wt.) 32-34% Ni, 3.5-6.5% Co, 0-0.1% Mn, 0-0.1% Si, 0-0.1% Cr, 0.005-0.02% C, max. 0.001% S, 0.0001-0.0002% Ca, 0.0001-0.0002% Mg, balance Fe and impurities, with the proviso that Co + Ni 38.5%, Co + 0.5 x Ni  $\geq$  20%, Co + 5 x Ni =  $\geq$  165.5% and S  $\leq$  0.02 x Mn + 0.8 x Ca + 0.6 x Mg. Also claimed is a shadow mask consisting of a perforated sheet of the above alloy.

IPC 1-7  
**C22C 38/10**; **H01J 29/07**

IPC 8 full level  
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**FR 2733767 A1 19961108**; **FR 2733767 B1 19970606**; CN 1059933 C 20001227; CN 1138634 A 19961225; DE 69606737 D1 20000330; DE 69606737 T2 20000817; DK 0745697 T3 20000619; EP 0745697 A1 19961204; EP 0745697 B1 20000223; JP 3756984 B2 20060322; JP H08311622 A 19961126; KR 100416116 B1 20040330; KR 960041391 A 19961219; PL 314075 A1 19961112

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