

Title (en)

LOW-FREQUENCY MAGNETIC SCREENING MADE FROM A SOFT MAGNETIC ALLOY

Title (de)

AUS EINER WEICHMAGNETISCHEN LEGIERUNG HERGESTELLTE NIEDERFREQUENZ-MAGNETABSCHIRMUNG

Title (fr)

BLINDAGE MAGNETIQUE BASSE FREQUENCE EN ALLIAGE MAGNETIQUE DOUX

Publication

**EP 1474812 A1 20041110 (FR)**

Application

**EP 03722655 A 20030214**

Priority

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Abstract (en)

[origin: WO03069637A1] The invention relates to a magnetic screening for frequency fields between 50 Hz and 3000 Hz, made from a soft magnetic alloy of the following composition in wt. %: 30 %  $\leq$  Ni  $\leq$  40 %, 0 %  $\leq$  Cu + Co  $\leq$  4 %, 5 %  $\leq$  Cr + Mo  $\leq$  17 %, 5 %  $\leq$  Cr, 0 %  $\leq$  Nb  $\leq$  2 %, Mn  $\leq$  0.35 %, Si  $\leq$  0.2 %, C  $\leq$  0.050 %, O  $\leq$  0.0160 %, S  $\leq$  0.0020 %, B  $\leq$  0.0010 %, optionally at least one element selected from magnesium and calcium in amounts such that the sum thereof remains below 0.1 %, the rest being iron and production impurities. The chemical composition furthermore satisfies the following relationships: Cr + Mo  $\leq$  0.8 x Ni + 0.9 x (Co + Cu) 18.4; Cr + Mo  $\leq$  4 x Ni + 3 x (Co + Cu) - 124; 4 x (Cr + Mo)  $\geq$  125 - 3 x Ni. The invention further relates to use of said alloy for the production of low-frequency magnetic screening.

IPC 1-7

**H01F 1/147**; **C22C 38/40**; **C22C 38/42**; **C22C 38/44**; **C22C 38/52**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 03069637A1

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