

Title (en)

Soft magnetic alloy, method for making, magnetic core, magnetic shield and compressed powder core using the same.

Title (de)

Weichmagnetische Legierung, Herstellungsverfahren, Magnetkern, magnetischer Schirm und gepresster Magnetkern damit.

Title (fr)

Alliage magnétiquement doux, méthode de préparation, noyau magnétique, écran magnétique et noyau à poudre comprimée utilisant cet alliage.

Publication

EP 0400550 A2 19901205 (EN)

Application

EP 90110109 A 19900528

Priority

- JP 9890590 A 19900413
- JP 9890690 A 19900413
- JP 12229990 A 19900511
- JP 12230090 A 19900511
- JP 13354089 A 19890527

Abstract (en)

A soft magnetic alloy having a composition of general formula: (I) $(\text{Fe}_{1-a}\text{Ni}_a)_{100-x-y-z-p-q}\text{Cu}_x\text{Si}_y\text{B}_z\text{Cr}_p\text{M}_{<1>q}$ wherein $\text{M}_{<1>q}$ is V or Mn or a mixture of V and Mn, $0 \leq a \leq 0.5$, $0.1 \leq x \leq 5$, $6 \leq y \leq 20$, $6 \leq z \leq 20$, $15 \leq y + z \leq 30$, $0.5 \leq p \leq 10$, and $0.5 \leq q \leq 10$ and possessing a fine crystalline phase is suitable as a core, especially a wound core and a compressed powder core.

IPC 1-7

H01F 1/153; **H01F 3/00**; **H05K 9/00**

IPC 8 full level

C22C 45/02 (2006.01); **H01F 1/153** (2006.01); **H01F 3/00** (2006.01)

CPC (source: EP)

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