

Title (en)

High-frequency core and inductance component using the same

Title (de)

Hochfrequenz-Magnetkern und Verwendung in einem Induktiven Bauelement

Title (fr)

Noyau magnétique à haute fréquence et composant inductif l'utilisant

Publication

EP 1598836 B1 20081231 (EN)

Application

EP 05010020 A 20050509

Priority

JP 2004146595 A 20040517

Abstract (en)

[origin: EP1598836A1] A high-frequency core (1) is a molded body obtained by molding a mixture of a soft magnetic metallic glass powder and a binder in an amount of 10% or less in mass ratio. The powder has an alloy composition represented by (Fe_{1-a}Co_a)_{100-x-y-z-q-r}(M_{1-p}M'_p)_xTyBzCqAlr (0 < a < 0.50, 0 < p < 0.5, 2 atomic% < x < 5 atomic%, 8 atomic% < y < 12 atomic%, 12 atomic% < z < 17 atomic%, 0.1 atomic% < q < 1.0 atomic%, 0.2 atomic% < r < 2.0 atomic% and 25 < (x+y+z+q+r) < 30, M being at least one selected from Zr, Nb, Ta, Hf, Mo, Ti, V, Cr, and W, M' being at least one selected from Zn, Sn, and R (R being at least one element selected from rare earth metals including Y), T being at least one selected from Si and P). An inductance component (101, 102) is formed by the core and a winding (3). <IMAGE>

IPC 8 full level

H01F 1/153 (2006.01); **H01F 3/14** (2006.01); **H01F 17/06** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP US)

H01F 1/15308 (2013.01 - EP US); **H01F 1/15375** (2013.01 - EP US); **H01F 1/15316** (2013.01 - EP US); **H01F 1/15325** (2013.01 - EP US); **H01F 3/14** (2013.01 - EP US); **H01F 17/062** (2013.01 - EP US); **H01F 41/0246** (2013.01 - EP US); **H01F 2017/048** (2013.01 - EP US)

Cited by

EP2555210A4; DE102006032517A1; DE102006032517B4; US8216393B2

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EP 1598836 A1 20051123; **EP 1598836 B1 20081231**; CN 1700369 A 20051123; CN 1700369 B 20100512; DE 602005012020 D1 20090212; US 2005254989 A1 20051117

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