

Title (en)

Low magnetostriction amorphous metal alloys.

Title (de)

Amorphe Legierungen von Metallen mit niedriger Magnetostraktion.

Title (fr)

Alliages de métal amorphes à magnétostriction basse.

Publication

EP 0160166 A1 19851106 (EN)

Application

EP 85101588 A 19811126

Priority

EP 85101588 A 19811126

Abstract (en)

A magnetic alloy that is at least 50 percent glassy, having the formula $(\text{Co}_{1-x-y-z}\text{Fe}_x\text{Ni}_y\text{Tz})_{100-b}(\text{B}_{1-w}\text{M}_w)_b$, where T is at least one of Mn, Cr, V, Ti, Mo, Nb and W, M is at least one of Si, P, C and Ge, B is boron x ranges from about 0.05 to 0.25, y ranges from about 0.05 to 0.80, z ranges from about 0 to 0.25, b ranges from about 12 to 30 atom percent, w ranges up to 0.75 when M is Si or Ge and up to 0.5 when M is C or P, said alloy having a value of magnetostriction of about -7×10^{-6} and $+5 \times 10^{-6}$ and a saturation induction of about 0.2 to 1.4T.

IPC 1-7

C22C 19/07; **H01F 1/14**

IPC 8 full level

C22C 45/04 (2006.01)

CPC (source: EP)

C22C 45/04 (2013.01)

Citation (search report)

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US5037494A; GB2233345A; GB2233345B; WO2022006978A1; WO8803699A1

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DE FR GB IT NL

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