

Title (en)

Article comprising a magnetic component consisting essentially of an alloy comprising Fe, Cr and Co.

Title (de)

Ein eine, hauptsächlich aus einer Fe-Cr-Co-Legierung bestehende, magnetische Zusammensetzung enthaltender Gegenstand.

Title (fr)

Article comprenant un composant magnétique consistant essentiellement en un alliage de Fe-Cr-Co.

Publication

**EP 0024686 A2 19810311 (EN)**

Application

**EP 80104952 A 19800820**

Priority

US 6927879 A 19790824

Abstract (en)

This invention relates to magnetic Fe-Cr-Co alloys which additionally contain Cu. Disclosed are permanent magnet Fe-Cr-Co-Cu alloys which preferably contain 22-38 weight percent Cr, 3-30 weight percent Co, 0.2-5 weight percent Cu, and remainder essentially iron. Presence of limited amounts of other elements such as, e.g., ferrite stabilizing elements or rare earth elements is not precluded. The new alloys have superior magnet properties such as, typically, remanence Br in a range of 8000-14000 gauss, coercive force Hc in a range of 200-1500 oersted (15,920-119,400 A/m), and energy product (BH)max in a range of 1.0-15.0 million gauss-oersted (79.6-1194 MG A m). Alloys of the invention may be processed to yield either isotropic or anisotropic magnet properties

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**H01F 1/04**; **C22C 38/30**

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