Title (en)

IRON-COBALT ALLOY, IN PARTICULAR FOR ELECTROMAGNETIC ACTUATOR MOBILE CORE AND METHOD FOR MAKING SAME

Title (de)

EISEN-KOBALT-LEGIERUNG INSBESONDERE FÜR ELEKTROMAGNETISCHEN AKTUATOR MIT BEWEGLICHEM KERNTEIL UND HERSTELLUNGSVERFAHREN

Title (fr)

ALLIAGE FER-COBALT, NOTAMMENT POUR NOYAU MOBILE D'ACTIONNEUR ELECTROMAGNETIQUE ET SON PROCEDE DE FABRICATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0186665A1] The invention concerns an iron-cobalt alloy, characterised in that it comprises in weight percentages: 10 to 22 % of Co; traces to 2.5 % of Si; traces to 2 % of Al; 0.1 to 1 % of Mn; traces to 0.0100 % of C; a total of O, N and S content ranging between traces and 0.0070 %; a total of Si, Al, Cr, Mo, V, Mn content ranging between 1.1 and 3.5 %; a total of Cr, Mo and V content ranging between traces and 3 %; a total of Ta and Nb content ranging between traces and 1 %; the rest being iron and impurities resulting from production; and in that: 1.23 x (Al + Mo) % + 0.84 (Si + Cr + V) % - 0.15 x (Co % - 15) </= 2.1 and in that 14.5 x. (Al + Cr) % + 12 x (V + Mo) % + 25 x Si % >/= 21. The inventive alloy is useful for making electromagnetic actuator mobile cores.

IPC 8 full level

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CPC (source: EP KR US)

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