

Title (en)
HIGH STRENGTH SOFT MAGNETIC ALLOYS

Title (de)
WEICHMAGNETISCHE LEGIERUNGEN MIT HOHER FESTIGKEIT

Title (fr)
ALLIAGES MAGNETIQUES DOUX A HAUTE RESISTANCE

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Application
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Abstract (en)
[origin: WO0005733A2] The invention provides a soft magnetic alloy consisting essentially of: 45 % to 55 % cobalt; 0.75 % to less than 1.5 % vanadium; 0.15 % to 0.5 % niobium or tantalum or mixtures thereof; 0 % to 0.3 % manganese; 0 % to 0.2 % silicon; 0 % to 0.1 % carbon; and the balance iron, all percentages being by weight based on the total weight of the alloy. The alloys can be used to manufacture both rotor and stator components of electrical machines. Control of heat treatment conditions allows outstanding mechanical and/or soft magnetic properties to be achieved.

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Cited by
US12116655B2; WO2018075882A1; US11827961B2; US9243304B2

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