

Title (en)

METHOD FOR MAKING SOFT MAGNETIC PARTS FROM PARTICULATE FERROUS MATERIAL, AND PARTS MADE THEREFROM

Title (de)

VERFAHREN ZUM PRODUZIERUNG VON WEICHMAGNETISCHEN TEILEN AUS KÖRNIGEN EISENWERKSTOFF, UND TEILE DARAUS

Title (fr)

PROCEDE DE FABRICATION DE BRIQUETTES MAGNETIQUES MOLLES A PARTIR D'UNE MATIERE PARTICULAIRE FERREUSE, ET ELEMENTS FABRIQUES A PARTIR DE CES BRIQUETTES

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Application

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Priority

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Abstract (en)

[origin: WO9838655A1] A method is provided for making soft magnetic parts from particulates of ferrous material. The methods includes the following steps. Providing a plurality of ferrous particles and coating at least one substantially uniform layer of from about 0 wt.% to about 15 wt.% of a metal onto each of the particles. The coated particles are consolidated to form a part, and the part is heated at a temperature and for a time period sufficient to promote the formation of intermetallic phases between the metal layer and the ferrous particle at the boundary therebetween. The intermetallic phases have an electrical resistivity of greater than about 100 ohms/mil-ft.

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