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(54) Title: METHOD FOR THE PRODUCTION OF MAGNET CORES; MAGNET CORE AND INDUCTIVE COMPONENT WITH A MAGNET CORE

(57) Abstract: A magnet core is required to be particularly dense, made of alloys produced in a rapid solidification process and have a minimal coercitive field strength. To achieve these aims, a coarse-grain powder fraction is first produced from an amorphous strip of a soft magnetic alloy. In addition, at least one fine-grain powder fraction is produced from a nanocrystalline strip of a soft magnetic alloy. The particle fractions are then mixed to produce a multi-modal powder, wherein the particles of the coarse-grain particle fraction have an amorphous structure and the particles of the fine-grain powder fraction have a nanocrystalline structure. The multi-modal powder is then pressed to produce a magnet core.



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