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(71) Applicant (for all designated States except US): **VACU-UMSCHMELZE GMBH & CO. KG** [DE/SG]; c/o Vaccumschmelze Singapore Pte Ltd, 300 Beach Road #31-03, The Concourse House, Singapore 199555 (SG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BRUNNER, Markus** [DE/DE]; Haidstr. 16, 63856 Bessenbach (DE).

(74) Agent: **SCHWEIGER, Martin**; Schweiger & Partners (Singapore) LLP, 1 Coleman Street #08-04, The Adelphi, Singapore 179803, (SG).

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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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