

Title (en)

PROCESS FOR MANUFACTURING A METALLIC WORK PIECE FROM AN AMORPHOUS ALLOY WITH AT LEAST PARTLY MAGNETIC COMPONENTS

Publication

EP 0213410 B1 19900314 (DE)

Application

EP 86110624 A 19860731

Priority

DE 3529019 A 19850813

Abstract (en)

[origin: US4743311A] A metal part, which may be an amorphous metal, is formed from an intermediate product comprised of at least two alloy components in powder form which have been compacted and optionally deformed such as by hammering or extrusion. The intermediate part is transformed into the metal part by a diffusion reaction. The intermediate product is produced by milling the at least two starting alloy components to form a mixture powder of particles having a predominantly layer-like structure comprising the starting alloy components. At least one of the starting alloy components is magnetic. After milling, the produced mixture powder is subjected to a magnetic field which aligns the still mobile powder particles. Thereafter, the final compacting and possible deformation takes place.

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IPC 8 full level

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CPC (source: EP US)

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