

Title (en)  
IRON-BASED POWDER COMBINATION

Title (de)  
PULVERKOMBINATION AUF EISENBASIS

Title (fr)  
COMBINAISON DE POUDRE A BASE DE FER

Publication  
**EP 1844172 A1 20071017 (EN)**

Application  
**EP 06701553 A 20060120**

Priority  
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• SE 0500261 A 20050204

Abstract (en)  
[origin: WO2006083206A1] The invention relates to a powder metallurgical combination comprising an iron-based powder A essentially consisting of core particles of iron pre-alloyed with molybdenum and having 6-15%, preferably 8-12% by weight of copper diffusion alloyed to the core particles, an iron-based powder B essentially consisting of particles of iron pre-alloyed with molybdenum and having 4.5-8%, preferably 5-7% by weight of nickel diffusion alloyed to the core particles, and an iron-based powder C essentially consisting of particles of iron pre-alloyed with molybdenum. The invention also relates to the powders A and B per se. Further the invention relates to a method for preparing an iron-based sintered component comprising 0.3-2% by weight of molybdenum, 0.2-2%, preferably 0.4-0.8% by weight of copper and 0.1-4% by weight of nickel and to a method to obtain a sintered component having a predetermined strength and a predetermined dimensional change during sintering.

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