

Title (en)

Injection compacting composition for preparing sintered body of metal powder and sintered body prepared therefrom

Title (de)

Verdichtungs-Injektionszusammensetzung zur Herstellung von Metallpulver-Sinterformkörper und daraus hergestellter Sinterformkörper

Title (fr)

Composition pour compactage par injection pour la préparation de pièces frittées de poudre métallique et pièce frittée ainsi préparée

Publication

**EP 0511428 B1 19960918 (EN)**

Application

**EP 91107049 A 19910501**

Priority

JP 30817589 A 19891128

Abstract (en)

[origin: EP0511428A1] An injection compacting composition suitable for preparing sintered bodies of metal powders, which can provide, by injection compacting, compacts having a high strength from which the binder can be removed without causing deformation, cracking and other defects, thus providing sintered metallic materials having a high density and no defects such as warpage and cracks in high yields, which comprises (1) a metal powder and (2) an organic binder comprising a composite acrylic polymer and an atactic polypropylene, said composite acrylic polymer being a suspension polymerization product prepared by dissolving (a) a polymer selected from the group consisting of an ethylene-vinyl acetate copolymer and an ethylene-ethyl acrylate copolymer in (b) an acrylic or methacrylic acid ester monomer or a mixture of an acrylic or methacrylic acid ester monomer and a styrene compound monomer, dispersing the resulting solution in an aqueous medium in the presence of a dispersing agent, and subjecting the resulting dispersion to a suspension polymerization. <IMAGE>

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**B22F 1/00**

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

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