

Title (en)

POWDER-METALLURGICAL METHOD FOR PRODUCING METAL FOAM

Title (de)

PULVERMETALLURGISCHES VERFAHREN ZUR HERSTELLUNG VON METALLSCHAUM

Title (fr)

PROCÉDÉ DU DOMAINE DE LA MÉTALLURGIE DES POUDRES POUR FABRIQUER UNE MOUSSE MÉTALLIQUE

Publication

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Application

EP 10736959 A 20100430

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Abstract (en)

[origin: WO2010127668A2] The powder-metallurgical method according to the invention for producing metal foam, which can only be implemented with alloy-inherent components, comprises at least the steps of mixing a powder made of at least the underlying metal of the metal foam, or the underlying metals of the metal foam, with Al(1-x)Mg(x) having 10 mass percent = x = 100 mass percent as a gas-forming agent in the form of metal powder in a concentration of 4 to 50 mass percent; subsequent compacting of the metal powder mixture, then heating the pressed body at atmospheric pressure to a temperature above the melting point of the metal matrix in order to generate a liquid metal foam, and subsequent cooling of the resulting microcellular metal foam at a temperature below the solidus temperature of the metal matrix.

IPC 8 full level

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Citation (search report)

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