

Title (en)
METHOD FOR PRODUCING FOAMED METAL COMPOSITES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON SCHAUMMETALL-VERBUNDFORMKÖRPERN

Title (fr)
PROCEDE DE PRODUCTION DE CORPS COMPOSITES EN METAL EXPANSE

Publication
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Application
EP 99912961 A 19990409

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• AT 62598 A 19980409

Abstract (en)
[origin: WO9952661A1] The invention relates to the production of forms or similar from foamed metal based on aluminium or other metals. Semi-finished product bodies or similar consisting of a foamable semi-finished product material obtained by compacting a mixture of at least one matrix metal powder and at least one expanding agent which releases a foaming gas are placed into a foaming mould (100) or similar where they are geometrically arranged in the desired manner and then heated to a temperature in the range of melting temperature of the matrix metal. Once the mould has been filled, the foaming process is concluded and the resulting foamed metal forms are shaped out. The invention is characterised in that at least one foamable compacted semi-finished product body is placed into a foaming mould together with at least one structure or functional part (671) or similar consisting of a material which does not foam at the melting temperature of the matrix metal, retained in a desired position and then heated whereby metal foam (600) is produced, said metal foam contact-binding or surrounding the structure or functional part in the form corresponding to the inner cavity of the mould. The metal of the metal foam formed is fully or partially brought into contact with the structure or functional part and after cooling, the composite form obtained is removed from the mould with the structure or functional part bonded in the metal foam.

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Cited by
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