

Title (en)  
METHOD FOR THE PRODUCTION OF COMPONENTS OF A GAS TURBINE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON BAUTEILEN EINER GASTUBINE

Title (fr)  
PROCEDE DE PRODUCTION DE COMPOSANTS D'UNE TURBINE À GAZ

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Application  
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Abstract (en)  
[origin: WO2005030417A1] The invention relates to a method for producing components preferably of a gas turbine, particularly an aircraft engine, by means of powder-metallurgical injection molding. In powder-metallurgical injection molding, a powder metal is first mixed with a binding agent so as to obtain a homogeneous mass, whereupon at least one molded body is produced from the homogeneous mass in an injection molding process, and the or each molded body is subsequently subjected to a debinding process. The or each molded body is then compressed by means of sintering to obtain at least one component having desired geometrical properties. According to the invention, several molded bodies are joined together by means of a diffusion process during sintering in order to produce a part. Preferably, the molded bodies that are to be joined together are brought into surface contact, preferably positive surface contact, in sections of the molded bodies, which are to be joined together, at least during sintering, pressure being applied to the molded bodies that are to be joined together during sintering.

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