

Title (en)
Microwave processing of MIM preforms

Title (de)
Mikrowellenbehandlung von MIM-Vorformen

Title (fr)
Traitement par micro-ondes de préformes MIM

Publication
EP 1719566 B1 20090805 (EN)

Application
EP 06252361 A 20060504

Priority
US 90829205 A 20050505

Abstract (en)
[origin: EP1719566A2] A method of producing a metallic component includes: providing a mixture of a metallic powder and a binder; melting the mixture and forming the mixture into a preform (48) in the shape of the component; remove a majority of the binder from the preform (48); and heating the preform (48) with microwave energy to remove the remainder of the binder and to sinter the metal powder together to form the component. The component may be formed as an individual component or continuously.

IPC 8 full level
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CPC (source: EP US)
B22F 3/1021 (2013.01 - EP US); **B22F 3/1025** (2013.01 - EP US); **B22F 3/22** (2013.01 - EP US); **B22F 3/225** (2013.01 - EP US); **B22F 3/227** (2013.01 - EP US); **B22F 2003/1046** (2013.01 - EP US); **B22F 2003/1054** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

Cited by
WO2021223926A1; EP3009212A1; EP3907022A1; CN109014176A; CN104117677A; US9914171B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1719566 A2 20061108; EP 1719566 A3 20070404; EP 1719566 B1 20090805; BR PI0601718 A 20061226; CA 2545699 A1 20061105; CA 2545699 C 20151020; DE 602006008208 D1 20090917; JP 2006312784 A 20061116; SG 126932 A1 20061129; SG 147458 A1 20081128; US 2006251536 A1 20061109

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