

Title (en)
Method of forming an article.

Title (de)
Verfahren zur Herstellung eines Formkörpers.

Title (fr)
Procédé de fabrication d'un article.

Publication
EP 0054404 A1 19820623 (EN)

Application
EP 81305803 A 19811209

Priority
US 21684480 A 19801216

Abstract (en)
A method of forming an article to a final form in a final cavity between two dies by forming a preform having the general shape of the final form of the article and thereafter measuring the amount of material contained in the preform and removing any material from the preform in excess of the amount of material required to completely fill the volume of the final cavity and then enclosing the preform in the final cavity to completely surround the preform and conform the preform to the shape of the final cavity to produce the final form of the article. Preferably, the preform is first formed by compacting powder metal so as to have a greater dimension in one direction than the final form and a lesser dimension in a transverse direction. After weighing the preform and removing excess material from the exterior of the preform, the preform is placed between two dies of a press which close to initially apply pressure to the greater dimension of the preform to reduce that dimension to the final desired dimension while increasing the lesser dimension to the final desired dimension of the final preform.

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Citation (search report)
• DE 2724524 A1 19771208 - KELSEY HAYES CO
• US 4142888 A 19790306 - ROZMUS WALTER J
• US 3785038 A 19740115 - ZAPF G
• GB 1495705 A 19771221 - DAIN R, et al
• FR 2015955 A1 19700430 - KREBSOEGE GMBH SINTERMETALL, et al
• US 3866303 A 19750218 - CHEHI STEPHEN E
• FR 2399394 A1 19790302 - THOMSON CSF [FR]

Cited by
CN108555302A; EP0540771A1

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