

Title (en)

METHOD FOR PERFORMING A MAGNETIC PULSE FORMING PROCESS

Title (de)

VERFAHREN ZUR DURCHFÜHRUNG EINES UMFORMPROZESSES MITTELS MAGNETISCHEN IMPULSEN

Title (fr)

PROCÉDÉ DE MISE EN OEUVRE D'UNE OPÉRATION DE FORMAGE PAR IMPULSIONS MAGNETIQUES

Publication

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Application

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Abstract (en)

[origin: WO2006071766A2] A magnetic pulse forming process is performed by an apparatus and a method that causes the plasticity of a workpiece to be preliminarily increased to facilitate deformation to the desired shape. Initially, a mandrel having a surface and an electrically conductive member are provided. The workpiece is oriented between the surface of the mandrel and the electrically conductive member, and a first electrical current is caused to flow through the workpiece and the electrically conductive member so as to increase the plasticity of the workpiece. Then, a second electrical current is caused to flow through the electrically conductive member and the workpiece so as to cause the workpiece to be deformed into engagement with the surface of the mandrel.

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