

Title (en)

METHOD OF OBTAINING TOOLS BY MEANS OF CONCRETE MOULD FORGING

Title (de)

VERFAHREN ZUM ERHALT VON WERKZEUGEN MITTELS BETONFORMSCHMIEDEN

Title (fr)

OBTENTION D'OUTILS FORMES DANS UN MOULE EN BETON

Publication

EP 1892049 A1 20080227 (EN)

Application

EP 04798237 A 20041116

Priority

ES 2004000510 W 20041116

Abstract (en)

A manufacturing method for dies, moulds and unique pieces or for a small quantity by means of forging in a forming mould is provided. The method consists in the construction of a forming mould which is able to bear high temperatures and mechanical stressing which occur when forging material in a closed system. It does not matter if the forming mould is destroyed during the forging process if the material of the mould, die or piece is deformed; the forming mould is sufficiently economical so that its cost does not exceed the cost reduction in relation to the machining process. The materials which are used for the construction of the forming mould should be the most economical, but they must have the thermal and mechanical characteristics which are necessary for the forging process. In particular, preferred materials for the moulds are mortar and concrete with cements of a high resistance, with refractory cements, with basaltic aggregates, sand and other refractory aggregates, and other aggregates which are normally used for construction. Also other mortars can be used.

IPC 8 main group level

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