

Title (en)

PROCESS FOR MANUFACTURING SEMI-FINISHED OR FINISHED ARTICLES FROM A METALLIC MATERIAL BY HOT-SHAPING

Publication

EP 0069421 B1 19860430 (DE)

Application

EP 82200780 A 19820623

Priority

CH 422481 A 19810626

Abstract (en)

[origin: EP0069421A1] The semi-finished and finished products of an aluminum, copper, nickel and iron alloy with or without oxydic dispersoids are obtained by thermoforming, wherein the forming is carried out isothermally or quasi-isothermally in a single step, at a temperature which is just lower than the temperature of the solidus of the alloy of the work piece, at a relatively low deformation rate and under low specific deformation forces. The workpiece and the tool are maintained at least during the last, longer face of the forming at the maximum allowable temperature nearest to the solidus line. Preferably, a previous homogenisation of the material at said maximum allowable temperature followed by a cooling to the surrounding temperature before the forming. Very good filling power of the mold.

IPC 1-7

C22F 1/00; **C22F 1/10**; **C21D 7/13**

IPC 8 full level

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