

Title (en)

METHOD FOR PRODUCING A METALLIC PART COMPRISING INNER REINFORCEMENTS CONSISTING OF CERAMIC FIBRES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES METALLTEILS MIT INTERNEN VERSTÄRKUNGEN AUS KERAMIKFASERN

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE MÉTALLIQUE COMPORTANT DES RENFORTS INTERNES FORMÉS DE FIBRES CÉRAMIQUES.

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Application

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Abstract (en)

[origin: WO2010001068A2] The invention relates to a method for producing a metallic part comprising inner reinforcements consisting of ceramic fibres, according to which: at least one recess (10A) for an insert is machined in a metallic body (10) having an upper surface (10B); at least one insert (11) consisting of ceramic fibres in a metallic matrix is arranged in the recess; the insert is covered with a cover (12); the gap around the insert is placed under a vacuum and hermetically sealed; the entire metallic body with the cover is treated by hot isostatic compaction; and said treated assembly is machined to produce said part. The method is characterised in that the insert (11) is rectilinear, and the recess for the insert in the metallic body forms a rectilinear groove (10A), the cover (12) being dimensioned in such a way as to be able to be placed on the insert (11) in the recess after having been shrunk by cooling and to establish a tight fit in the groove by means of dilation such as to close the space.

IPC 8 full level

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