

Title (en)

METHOD OF FORMING CERAMIC LAYER ON METALLIC BODY.

Title (de)

VERFAHREN ZUR BILDUNG EINER KERAMISCHEN SCHICHT AUF EINEM METALLKÖRPER.

Title (fr)

PROCEDE DE FORMATION D'UNE COUCHE EN MATERIAU CERAMIQUE SUR UN CORPS METALLIQUE.

Publication

EP 0381760 B1 19950118 (EN)

Application

EP 89905209 A 19890421

Priority

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- JP 9882788 A 19880421

Abstract (en)

[origin: WO8910432A1] A method of forming a ceramic layer, which is compact and rich in adhesion to a metallic body, on the metallic body without adding binders even though said ceramics is hard to be sintered ceramics such as various kinds of non oxide ceramics. Said method comprises a step of placing ceramic powders and/or a mixture of ceramic powders and metallic powders or a mixture of metallic powders and non metallic powders on the metallic body and a step of forming the ceramic layer on the metallic body in a moment by a reaction heat of the Thermit?R reaction under the pressurized condition. In addition, a metallic insert member can be disposed between said metallic body and various kinds of powder placed on said metallic body. Furthermore, the resulting ceramic/metal composite member is subjected to a hot hydrostatic pressing or a hot pressing under high temperatures and high pressures.

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Cited by

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