

Title (en)

METHOD FOR THE PRODUCTION OF THIN LAYERS OF METAL-CERAMIC COMPOSITE MATERIALS

Title (de)

VERFAHREN ZUR HERSTELLUNG DÜNNER SCHICHTEN VON METALL-KERAMIK- VERBUNDWERKSTOFFEN

Title (fr)

PROCÉDÉ DE PRODUCTION DE COUCHES FINES DE MATÉRIAUX COMPOSITES MÉTAL-CÉRAMIQUE

Publication

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Application

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Abstract (en)

[origin: WO2008055496A1] The invention relates to a method for producing thin layers of metal-ceramic composite materials containing metallic nanoparticles. Said method can be used for coating a solar absorber with a cermet-based selectively absorbing surface layer that is very easy and inexpensive to produce in a reliable manner and has good spectral selectivity. In said method, one or more thin cermet layers are deposited on a substrate by immersing metallic substrates into a stabilized aqueous or organic suspension. The suspension is composed of alcoholic or aqueous solution in which ceramic nanopowders are dispersed and which contains the metallic portion of the cermet in the form of metal ions.

IPC 8 full level

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