

Title (en)

COMPOUND FOR METAL MODIFICATION AND METAL SURFACE RESTORATION

Title (de)

VERBINDUNG ZUR MODIFIZIERUNG VON METALL SOWIE RESTAURIERUNG EINER METALLOBERFLÄCHE

Title (fr)

COMPOSE DESTINE A LA MODIFICATION DE METAUX ET LA RESTAURATION DE LA SURFACE DE METAUX

Publication

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Application

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Abstract (en)

[origin: WO0218673A3] The invention refers to mechanical engineering and metallurgy and can be predominantly used for the development of cermet alloys and surfaces based on ferrous and nonferrous metals that possessing high tribotechnical characteristics, wear resistance and corrosion stability, and also for restoration of worn-out metal surfaces by forming a cermet layer upon them. The compound represents a mixture with the dispersion of 0.1-10.0 μm that contains serpophite in the amount of 40-70 % of the compound mass; kaolinite, for example amesite, in the amount of 10-40 % of the compound mass; crystallizer, for example pyrolusite, in the amount of 5-10 % of the compound mass; and catalyst, for example metasilicate, in the amount of 5-10 % of the compound mass. The invention provides obtaining cermet layers that process high strength, homogeneity of structure and necessary thickness, the cermet having specified predictable parameters, both in the bulk and at the surface of ferrous and non-ferrous metals and alloys, a long storage time, and a variety of application areas.

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