

Title (en)

PROCESS FOR TREATMENT A DISPERSION-HARDENED PLATINUM COMPOSITION

Title (de)

VERFAHREN ZUR BEARBEITUNG EINER DISPERSIONSGEHÄRTETEN PLATINZUSAMMENSETZUNG

Title (fr)

PROCÉDÉ D'USINAGE D'UN MATÉRIAU À BASE DE PLATINE RENFORCÉ PAR DISPERSION

Publication

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Application

EP 14812166 A 20141204

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Abstract (en)

[origin: WO2015082630A1] The invention relates to a method for processing a dispersion-hardened platinum composition, wherein a volume body of a dispersion-hardened platinum composition having at least 70 wt% of platinum, at most 29.95 wt% of other noble metals, and 0.05 wt% to 0.5 wt% of at least one at least partially oxidized non-noble metal selected from zirconium, cerium, scandium, and yttrium is provided. The provided volume body composed of the dispersion-hardened platinum composition is cold-worked, wherein the cross-sectional area of the volume body of the dispersion-hardened platinum composition is reduced by at most 20% in the cold-working, and then a temperature treatment of the cold-worked volume body is performed, in which temperature treatment the cold-worked product is tempered at at least 1100 °C for at least one hour. The invention further relates to a method for producing a product composed of a dispersion-hardened platinum composition, and to a dispersion-hardened platinum material that can be obtained according to the processing method presented above. The invention further relates to a use of a dispersion-hardened platinum material.

IPC 8 full level

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Citation (opposition)

Opponent : Johnson Matthey Public Limited Company

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