

Title (en)

METHOD AND DEVICE FOR HEATING METAL COMPONENTS USING ELECTRON IRRADIATION IN A VACUUM CHAMBER

Title (de)

VERFAHREN UND EINRICHTUNG ZUM ERWÄRMEN VON METALLBAUTEILEN MIT ELEKTRONENBESTRAHLUNG IN EINER VAKUUMKAMMER

Title (fr)

PROCEDE ET DISPOSITIF POUR CHAUFFER DES COMPOSANTS METALLIQUES PAR IRRADIATION AVEC DES ELECTRONS DANS UNE CHAMBRE SOUS VIDE

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Application

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Abstract (en)

[origin: WO0018985A2] The invention relates to a method for heating metal components using electron irradiation in a vacuum chamber. In order to uniformly heat the metal components in all areas thereof, the invention provides that multilayer holding elements (6) are used for holding the metal components (3) in the vacuum chamber (1). Said holding elements are provided with a layer (9) which faces the electron irradiation, which is resistant to heat and which exhibits good heat absorbing properties. The holding elements are also provided with an inner layer (10) which faces the respective metal component (3) and which exhibits good heat radiating properties. The invention also relates to a device for heating metal components which comprises multilayer holding elements (6). Said holding elements each comprise an outer layer (9) which exhibits absorbing properties and an inner layer (10) which exhibits good heat radiating properties.

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