Title (en)

SYSTEM AND METHOD FOR RADIATION-HARDENING A COATING OF A WORKPIECE UNDER A PROTECTIVE GAS

Title (de)

ANLAGE UND VERFAHREN ZUM STRAHLUNGSHÄRTEN EINER BESCHICHTUNG EINES WERKSTÜCKES UNTER SCHUTZGAS

Title (fr)

INSTALLATION ET PROCEDE DE DURCISSEMENT PAR RAYONNEMENT D'UN REVETEMENT DE PIECE SOUS GAZ PROTECTEUR

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Application

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Abstract (en)

[origin: WO2007045442A1] The invention relates to a system for radiation-hardening a coating of a workpiece (1) under a protective gas. Said system comprises a hardening cabin (10) whereon at least one radiation device, which is used to radiate the inside of the cabin, is provided, and a transport device (60) which is used to transport the workpiece (1) in the hardening cabin (10) along a transport path (63).According to the invention, a collecting area (5) is formed in the region of the hardening cabin (10) on the ceiling thereof (13), a protective gas which is lighter than the ambient atmosphere collects in said collecting area, and the transport path (63) of the workpiece (1) transverses the collecting area (5) which is arranged on the ceiling. The invention also relates to a method for radiation-hardening a coating of a workpiece (1) under a protective gas.

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