

Title (en)

Method for applying a coating to a valve seat of a workpiece

Title (de)

Verfahren zum Aufbringen einer Beschichtung auf eine Sitzfläche eines Werkstücks

Title (fr)

Procédé d'application d'un revêtement sur une surface d'assise d'une pièce usinée

Publication

**EP 2228462 B1 20140924 (DE)**

Application

**EP 10152429 A 20100202**

Priority

- EP 09154587 A 20090309
- EP 10152429 A 20100202

Abstract (en)

[origin: EP2228462A1] The method for applying a coating to a seat surface (2) of a workpiece (3), where the seat surface is provided inside a hole (4) in the workpiece at a predetermined distance from an inlet opening (5) of the hole and a smallest diameter of the hole in an area between the inlet opening and the seat surface is maximum 10% of the distance, comprises applying a coating material on the seat surface and forming the coating on the seat surface using an energy beam in a further process step, in which the energy beam is directed to the seat surface through the hole. The method for applying a coating to a seat surface (2) of a workpiece (3), where the seat surface is provided inside a hole (4) in the workpiece at a predetermined distance from an inlet opening (5) of the hole and a smallest diameter of the hole in an area between the inlet opening and the seat surface is maximum 10% of the distance, comprises applying a coating material on the seat surface and forming the coating on the seat surface using an energy beam in a further process step, in which the energy beam is directed to the seat surface through the hole, where the energy beam is a laser beam or an electron beam. The coating material is applied on a part of the seat surface in the form of a coating powder (100, 101), coating wire and/or prefabricated coating body by the energy beam before an energy input. After the formation of the coating on the seat surface, a functioning hole is introduced through the coating.

IPC 8 full level

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