

Title (en)

DEVICE FOR HOMOGENEOUS IMPINGEMENT OF A PLANAR SURFACE OF A TOOL WITH A HEATED GAS

Title (de)

VORRICHTUNG ZUR GLEICHMÄSSIGEN BEAUFSCHLAGUNG EINER PLANENFLÄCHE EINES WERKSTÜCKS MIT EINEM ERHITZTEN GAS

Title (fr)

DISPOSITIF POUR EXPOSER DE FAÇON HOMOGÈNE UNE SURFACE PLANE D'UNE PIÈCE À UN GAZ CHAUD

Publication

EP 1485207 A1 20041215 (DE)

Application

EP 03709615 A 20030214

Priority

- DE 0300454 W 20030214
- DE 10212234 A 20020319

Abstract (en)

[origin: WO03078072A1] The device for homogeneous impingement of a planar surface (2) of a tool with a heated gas comprises a nozzle plate (5) which is provided with nozzles (3) and which extends in a parallel position to the planar surface, being provided with openings for the nozzles (3). The nozzles (3) are disposed in a normal position with regard to the surface (2) which is to be impinged upon and are embodied in a tubular form. A spiral-shaped deflector device (6) is arranged therein. Since the gas jets impact upon the surface (2) to be impinged upon in a normal position, the shortest possible jet path arises and heat transition loss is reduced. Spiral shaped guidance of the jets increases the cross-sectional area upon exit, whereupon the surface (2) to be impinged upon is covered in a homogeneous manner when the nozzles (3) are arranged in a suitable manner.

IPC 1-7

B05B 1/00; **F27D 7/04**; **C21D 1/767**; **F26B 21/00**

IPC 8 full level

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CPC (source: EP US)

B05B 1/005 (2013.01 - EP US); **C21D 1/767** (2013.01 - EP US); **F26B 21/004** (2013.01 - EP US); **F27D 7/04** (2013.01 - EP US); **C21D 9/0006** (2013.01 - EP US)

Citation (search report)

See references of WO 03078072A1

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