Title (en)

TEMPERATURE CONTROL STATION FOR PARTIALLY THERMALLY TREATING A METAL COMPONENT

Title (de)

TEMPERIERSTATION ZUR PARTIELLEN WÄRMEBEHANDLUNG EINES METALLISCHEN BAUTEILS

Title (fr)

POSTE DE THERMORÉGULATION POUR LE TRAITEMENT THERMIQUE PARTIEL D'UNE PIÈCE MÉTALLIQUE

Publication

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Application

**EP 17804826 A 20171108**

Priority

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Abstract (en)

[origin: WO2018087191A1] The invention relates to a temperature control station (1) for partially thermally treating a metal component (2), comprising a machining plane (3) which is arranged in the temperature control station (1) and on which the component (2) can be arranged, at least one nozzle (4) which is oriented towards the machining plane (3) and is provided and designed to discharge a fluid flow (5) for cooling at least one first sub-region (6) of the component (2), and at least one nozzle box (7) which is arranged above the machining plane (3). The at least one nozzle box (7) forms at least one nozzle region (8) in which the at least one nozzle (4) can be at least partly arranged and/or which at least partly delimits an expansion of the fluid flow (5). The at least one nozzle box (7) is at least partly made of a ceramic material. The aim of the invention is to provide a temperature control station and a device for thermally treating a metal component which at least partly solve the problems described with respect to the prior art. In particular, the temperature control station and the device allow a sufficiently reliable thermal confinement of thermal treatment measures partially acting on the component and/or a sufficiently reliable thermal separation of different thermal treatment measures partially acting on the component.

IPC 8 full level

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CPC (source: EP US)

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- JP 2015080786 A 20150427 - ASTEER CO LTD
- US 2011303328 A1 20111215 - KONDO MASAAKI [JP], et al

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