

Title (en)

METHOD OF CONTROLLING AN ATMOSPHERE IN A FURNACE FOR PERFORMING SINTERING PROCESS

Title (de)

VERFAHREN ZUR STEUERUNG EINER ATMOSPHERE IN EINEM OFEN ZUR DURCHFÜHRUNG VON SINTERVERFAHREN

Title (fr)

PROCÉDÉ DE COMMANDE D'UNE ATMOSPHERE DANS UN FOUR POUR EFFECTUER UN PROCÉDÉ DE FRITTAGE

Publication

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Application

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Priority

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Abstract (en)

The present invention relates to a method of controlling an atmosphere in a furnace, particularly for performing a sintering process, wherein a dew point and/or a redox potential and/or a material concentration, particularly a mass fraction and/or a mole fraction and/or a volume concentration in the furnace is determined, wherein a base atmosphere comprising nitrogen and hydrogen is provided (201) in the furnace, wherein a fraction of hydrogen of the base atmosphere is predetermined (201) in dependence of a material to be sintered in the furnace, wherein an additional amount of hydrogen is provided (203) in the furnace in dependence of the determined dew point and/or the determined redox potential and/or the determined material concentration in the furnace, wherein an amount of a carbon potential enrichment gas and/or an amount of a carbon potential decreasing gas is provided (205) in the furnace in dependence of the determined dew point and/or the determined redox potential and/or the determined material concentration in the furnace.

IPC 8 full level

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Citation (search report)

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