

Title (en)

DEVICE AND METHOD FOR THERMAL OR THERMO-CHEMICAL TREATMENT OF MATERIAL

Title (de)

VORRICHTUNG UND VERFAHREN ZUR THERMISCHEN ODER THERMO-CHEMISCHEN BEHANDLUNG VON MATERIAL

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LE TRAITEMENT THERMIQUE OU THERMOCHIMIQUE D'UN MATÉRIAU

Publication

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Application

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Abstract (en)

[origin: WO2019052674A1] The invention relates to a device for the thermal or thermo-chemical treatment, more particularly calcination, of material (12), more particularly battery cathode material (14), comprising a housing (16), in which a process space (20) is located. The material (12), or carrying structures (40) loaded with the material (12), can be conveyed in a conveying direction (30) into or through the process space (20) by means of a conveying system (28). A process space atmosphere (50) prevailing in the process space (20) can be heated by means of a heating system (48). There is a process gas system (64), by means of which a process gas (66) can be fed to the process space (20), said process gas being required for the thermal treatment of the material (12). The process gas system (64) comprises a plurality of local injection units (68), which are arranged and configured such that process gas (66) can be released in a targeted manner onto the material (12) or onto the carrying structures (40) loaded with material (12), the process gas being released in a plurality of local process gas streams (70), each having a main stream direction (72). The invention also specifies a method for the thermal or thermo-chemical treatment of material (12), in which process gas (66) is released in a targeted manner onto the material (12) or onto the carrying structures (40) loaded with material (12), the process gas being released in a plurality of local process gas streams (70), each having a main stream direction (72).

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