

Title (en)
HEATING APPARATUS FOR THE PRODUCTION OF CARBON FIBRES

Title (de)
HEIZVORRICHTUNG ZUR HERSTELLUNG VON KOHLENSTOFFFASERN

Title (fr)
APPAREIL DE CHAUFFAGE POUR LA PRODUCTION DE FIBRES DE CARBONE

Publication
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Application
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• EP 2015000457 W 20150227

Abstract (en)
[origin: WO2015131990A1] A heating device (10) for producing carbon fibers from a thread-shaped fiber starting material (12) is described, wherein the heating device (10) has a central tubular induction heating element (14) through which the fiber starting material (12) is moved, the tubular induction heating element (14) is surrounded by thermal insulation (18), at least one mid- to high-frequency induction coil (22) is provided outside the thermal insulation (18), and an inert gas flows through the central induction heating element (14) in particular for carbonizing and/or graphitizing the fiber starting material (12). For energy optimization, i.e. to achieve an optimal efficiency, a first and a second tube element (26, 28) are provided on the outer side of the thermal insulation (18), said elements are made of material that is transparent to the induction field of the mid- to high-frequency induction coil (22) and are spaced apart from one another by an annular gap (30) through which the inert gas flows.

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