

Title (en)
OXIDATION FURNACE

Title (de)
OXIDATIONSOFEN

Title (fr)
FOUR D'OXYDATION

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Application
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Abstract (en)
[origin: WO2018041781A1] The invention relates to an oxidation furnace for the oxidative treatment of fibres, in particular for producing carbon fibres, said furnace comprising a housing (12) with an inner space (14) which is gas-tight apart from areas (18, 20) for the passage of the fibres (22). A process chamber (28) is located in the inner space (14) of the housing (12). Guide rollers (34) guide the fibres (22) arranged adjacently as a fibre carpet (30) in a serpentine manner through the process chamber (28), the fibre carpet (30) spanning respective planes between opposite guide rollers (34), a partial area (38) of the inner space (14) being defined both above and below said planes. The process chamber (28) extends between a primary blowing device (46a) arranged on a blowing end (44) of the housing (12) and a primary suction device (50), where a primary gas is blown into a partial area (38) by means of the primary blowing device (46a) in such a way that the process gas flows through the process area (28) in a process flow direction (50). A secondary gas can be blown into the partial area (38) by means of a secondary blowing device (46b), on the side of the primary blowing device (46a) located at a distance from the process chamber (28), using a flow sealing device (84).

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