

Title (en)  
OXIDATION FURNACE

Title (de)  
OXIDATIONSOFEN

Title (fr)  
FOUR D'OXYDATION

Publication  
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Application  
**EP 11701209 A 20110126**

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Abstract (en)  
[origin: WO2011098215A1] The invention relates to an oxidation furnace (1) for the oxidative treatment of fibres (20), especially for producing carbon fibres, which, in known ways, comprises a process chamber (6) arranged inside a housing (2), a blowing device (13) for hot air, at least one suction device (14, 15) arranged in an end region of the process chamber (6), at least one ventilator (21) that circulates the hot air through the blowing device (13), the process chamber (6) and the suction device (14, 15), and at least one heating device (18) arranged in the flow path of the hot circulated air. The suction device (14, 15) is formed from a plurality of vertically interspaced suction boxes (19). Said boxes have at least one outlet for the hot air, and at least one inlet for hot air, communicating with the process chamber (6) and arranged in the outward-facing side of the suction boxes (19), that is the side that is at a distance from the centre of the process chamber. In this construction, the effective length of the sections in which the fibres are subjected to the oxidising process is extended, compared to conventional constructions, so that the furnace (1) can especially be built at a lower level.

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