

Title (en)
FURNACE AND METHOD FOR OPERATING A FURNACE

Title (de)
BRENNOFEN UND VERFAHREN ZUM BETRIEB EINES BRENNOFENS

Title (fr)
FOUR ET PROCÉDÉ DE FONCTIONNEMENT D'UN FOUR

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Application
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Abstract (en)
[origin: WO2021037622A1] The invention relates to a method and to a control device for operating a furnace (10), in particular an anode furnace, wherein the furnace is formed from a plurality of heating ducts (12) and furnace chambers (13), wherein the furnace chambers serve for receiving carbon-containing products, in particular anodes, and the heating ducts serve for controlling the temperature of the furnace chambers, wherein the furnace comprises at least one furnace unit (11), wherein the furnace unit comprises a heating zone (18), a firing zone (19) and a cooling zone (20), which for their part are formed from at least one section (37, 38, 39, 40, 41, 42) comprising furnace chambers, wherein, of the furnace unit, an extraction ramp (15) is arranged in a section of the heating zone and a burner ramp (16) is arranged in a section of the firing zone, wherein process air in the heating ducts of the firing zone is heated by means of the burner ramp and exhaust gas from the heating ducts of the heating zone is extracted by means of the extraction ramp, wherein operation of the ramps is controlled by means of a control device of the furnace unit, wherein an amount of fuel of the burner ramp is determined by means of the control device and wherein, for at least one section, a ratio of the combustion air and the amount of fuel is determined by means of the control device.

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