

Title (en)
BURNER ARRANGEMENT AND OPERATING METHOD THEREOF

Title (de)
BRENNERANORDNUNG UND VERFAHREN FÜR DEREN BETRIEB

Title (fr)
SYSTEME BRULEUR ET SON MODE DE FONCTIONNEMENT

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Application
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Abstract (en)
[origin: WO2006133880A1] The invention relates to a burner arrangement for an NO_x-reduced combustion in high-temperature processes and to a burner arrangement operating method. A first step consists in producing and burning a mixture of fuel and combustion air in a chamber (4) and in obtaining combustion for a first time interval. When the temperature in a furnace chamber (6) located in the burner arrangement and in the chamber (4) exceeds the mixture ignition temperature, the combustion is interrupted for a second time interval, a fuel supply being reduced or stopped. During said time interval, the chamber (4) temperature comes down faster than the furnace chamber (6) temperature and, after the second time interval, the chamber (4) temperature is lower than the ignition temperature whereas the furnace chamber (6) temperature is higher than said ignition temperature. Following the second time interval, the ignitable mixture is formed again in the chamber (4) and is ignited at the input of the furnace chamber (6) only, instead of the chamber (4) because of temperature conditions.

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Cited by
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