

Title (en)
Operation process for a furnace and device therefore

Title (de)
Verfahren zum Betrieb eines Ofens und Vorrichtung dafür

Title (fr)
Procédé de conduite d'un four et dispositif pour la mise en oeuvre du procédé

Publication
EP 0949477 A1 19991013 (FR)

Application
EP 99400640 A 19990316

Priority
FR 9804115 A 19980402

Abstract (en)
The exhaust gas temperature is measured in two places, one (31) near the outlet of the furnace (1) and the other (33) in the chimney downstream of the first. The second temperature measurement is subtracted from the first and the result is compared to a set positive or zero value DELTA T. The ratio of fuel to oxidant is reduced if the result of the subtraction is less than DELTA T. Operating a furnace (1) with a chimney (11) for the exhaust gases comprises introducing ambient air through an inlet (19) into the chimney and a fume extractor (16) in the chimney, downstream of the air inlet. The set value of DELTA T is the difference between the two temperature measurements when the furnace is functioning optimally; the value can be zero. After the reduction, the temperature at the first measuring point is compared to a reference temperature and the ratio of fuel to oxidant is increased when the measured temperature is below the reference temperature. An Independent claim is included for an apparatus for the above process.

Abstract (fr)
L'invention concerne un procédé de conduite d'un four (1) comprenant une cheminée (11) d'évacuation des fumées, des moyens (19) d'introduction d'air ambiant dans ladite cheminée (11) et un extracteur (16) des fumées disposé dans ladite cheminée (11). Selon le procédé, on mesure la température des fumées en deux emplacements (31,33), on soustrait la température mesurée au niveau du second emplacement (33) de celle mesurée au niveau du premier emplacement (31), on compare le résultat de soustraction à une valeur de consigne ΔT , et on diminue le rapport du débit de combustible au débit de l'oxydant introduits dans le four (1) lorsque le résultat de la soustraction est inférieur à la valeur de consigne ΔT .
<IMAGE>

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F27B 7/20 (2013.01 - EP US); **F27B 7/42** (2013.01 - EP US); **F27D 19/00** (2013.01 - EP US)

Citation (search report)

- [A] EP 0553632 A2 19930804 - LINDE AG [DE]
- [A] WO 9006432 A1 19900614 - BOSCH GMBH ROBERT [DE]

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