

Title (en)

Method and device for determining and for controlling of the excess of air in a combustion process

Title (de)

Verfahren und Vorrichtung zur Bestimmung sowie zur Regelung des Luftüberschusses bei einem Verbrennungsprozess

Title (fr)

Procédé et dispositif pour déterminer et commander l'excès d'air dans un processus de combustion

Publication

EP 1091175 B1 20061102 (DE)

Application

EP 00120859 A 20000925

Priority

DE 19948377 A 19991007

Abstract (en)

[origin: EP1091175A2] Process for determining and regulating excess air during a combustion process comprises determining the formation rates of cyanide (K(CN)) and carbon monoxide (K(CO)) produced during the combustion and calculating the ratio K(CN)/K(CO) from the formation rates as a parameter representing the excess air. An Independent claim is also included for an apparatus for determining and regulating excess air during a combustion process comprising sensors (2, 3) and data processors (6) for determining the formation rates K(CN) and K(CO) during the combustion, and a device (13) for determining the ratio K(CN)/K(CO) from the formation rates as a parameter representing the excess air. Preferred Features: The formation rates K(CN) and K(CO) are determined using emission spectroscopy from the radiation from the combustion flame.

IPC 8 full level

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CPC (source: EP)

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Cited by

WO2008110341A1; DE102008056672A1; EP4382893A1; FR2816056A1; AU2008226060B2; US9360209B2; WO2014075795A1; WO2010149687A3; US8203714B2

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