

Title (en)
Temperature measuring device

Title (de)
Temperaturmessvorrichtung

Title (fr)
Dispositif de mesure de température

Publication
EP 0819889 A1 19980121 (DE)

Application
EP 97810431 A 19970702

Priority
DE 19628960 A 19960718

Abstract (en)
The measuring device uses several optical measuring sensors (7) which are positioned directly adjacent the flame front (8) within a pre-mixing zone (3) for a burner (1). Each sensor is aligned parallel or coaxial with the fuel feed flow direction (5). Each sensor may have an associated optical fibre, and the fibres are combined to provide an optical fibre bundle for supplying the sensor signals to a spectrometer, for evaluation of the flame temperature via spectral analysis.

Abstract (de)
Bei einer Temperaturmessvorrichtung, insbesondere für die Flammentemperaturmessung in einer Gasturbinenbrennkammer, sind eine Anzahl optischer Messsensoren (7) unmittelbar stromaufwärts einer Flammenfront (8) in einer Vormischzone (3) eines Brenners (1) angeordnet. Jeder optische Messsensor 7 ist im wesentlichen parallel und/oder coaxial zu einer in die Gasturbinenbrennkammer geführten Brennstoffströmung (5) ausgerichtet ist. <IMAGE>

IPC 1-7
F23N 5/08

IPC 8 full level
G01K 13/00 (2006.01); **F02C 9/00** (2006.01); **F23N 5/08** (2006.01); **G01J 5/00** (2006.01)

CPC (source: EP US)
F23N 5/082 (2013.01 - EP US); **F23N 5/08** (2013.01 - EP US); **F23N 2229/16** (2020.01 - EP US); **F23N 2241/20** (2020.01 - EP US); **F23N 2900/05005** (2013.01 - EP US)

Citation (search report)

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EP 0819889 A1 19980121; **EP 0819889 B1 20070207**; DE 19628960 A1 19980122; DE 19628960 B4 20050602; DE 59712810 D1 20070322; JP 4112043 B2 20080702; JP H1082701 A 19980331; US 6142665 A 20001107

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