Title (en)

DEVICE AND METHOD FOR CONTROLLING THE COMPOSITION OF A GASEOUS ATMOSPHERE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR KONTROLLE DER ZUSAMMENSETZUNG EINER GASATMOSPH RE

Title (fr)

DISPOSITIF ET PROCEDE POUR CONTROLER LA COMPOSITION D'UNE ATMOSPHERE GAZEUSE

Publication

EP 1493026 A2 20050105 (DE)

Application

EP 03724977 A 20030408

Priority

- DE 10215857 A 20020410
- EP 0303640 W 20030408

Abstract (en)

[origin: WO03085396A2] The invention relates to a device and a method for monitoring the oxygen content of a gaseous atmosphere in a chamber, surrounded by an oxygen-containing gas. According to the invention, a bypass connected to the chamber is provided, which extracts an aliquot of the gas atmosphere and which has means for determining a parameter which permits inferences about the oxygen content of the gas atmosphere to be drawn. The parameter which permits inferences to be drawn about the oxygen content of the gas atmosphere is preferably determined by means of a lambda probe. The invention further relates to a device and a method for controlling the oxygen content of a gas atmosphere in a chamber, which is surrounded by an oxygen-containing gas. According to the invention, the composition of the gas atmosphere within the chamber is regulated such that the variation in oxygen content of the gas atmosphere is essentially zero.

IPC 1-7

G01N 33/00; C21D 1/76

IPC 8 full level

C21D 1/76 (2006.01); **F27D 21/00** (2006.01); **G01N 33/00** (2006.01); F27D 19/00 (2006.01)

CPC (source: EP)

C21D 1/76 (2013.01); **F27D 21/00** (2013.01); **G01N 33/0011** (2013.01); F27D 2019/0006 (2013.01)

Citation (search report)

See references of WO 03085396A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 03085396 A2 20031016; **WO 03085396 A3 20040325**; AU 2003227577 A1 20031020; AU 2003227577 A8 20031020; DE 10215857 A1 20031023; EP 1493026 A2 20050105

DOCDB simple family (application)

EP 0303640 W 20030408; AU 2003227577 A 20030408; DE 10215857 A 20020410; EP 03724977 A 20030408