

Title (en)

DIFFERENTIAL PARTICULATE MASS MONITOR WITH INTRINSIC CORRECTION FOR VOLATILIZATION LOSSES

Title (de)

DIFFERENTIELLER TEILCHENMASSENMONITOR MIT INTRINSISCHER KORREKTUR VON FLÜCHTIGKEITSVERLUSTEN

Title (fr)

DISPOSITIF DE CONTROLE DIFFERENTIEL DE MASSE PARTICULAIRE AVEC SYSTEME DE CORRECTION INTRINSEQUE POUR LES PERTES PAR VOLATILISATION

Publication

EP 1151270 A2 20011107 (EN)

Application

EP 00905891 A 20000201

Priority

- US 0002542 W 20000201
- US 24144799 A 19990202
- US 13332099 P 19990510

Abstract (en)

[origin: WO0046584A2] The mass of particulate matter in a particle laden gas stream (42) is measured using a first mass detector (50A) and a second mass detector (50B). Switching means (48A, 48B, 56) causes the particle laden gas stream and a substantially identical but particle-free gas stream to alternately engage the first mass detector and the second mass detector respectively during successive measurement time periods. A difference between a reading provided by the first mass detector (50A) and a reading provided by the second mass detector (50B) for each of the successive measurement time periods is determined. This difference intrinsically corrects for volatilization losses occurring during the measurement time periods. A measure of the mass or concentration of particulate matter in the particulate laden gas stream is determined from this difference. Single detector embodiments (10', 40') are also presented.

IPC 1-7

G01N 15/02; **G01N 15/06**

IPC 8 full level

G01N 5/00 (2006.01); **G01N 5/04** (2006.01); **G01N 15/02** (2006.01); **G01N 15/06** (2006.01)

CPC (source: EP)

G01N 5/04 (2013.01); **G01N 15/0266** (2013.01); **G01N 15/0656** (2013.01); **G01N 15/0618** (2013.01)

Citation (search report)

See references of WO 0046584A2

Citation (examination)

WO 9958936 A1 19991118 - RUPPRECHT & PATASHNICK CO [US]

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0046584 A2 20000810; **WO 0046584 A3 20001207**; AU 2749700 A 20000825; EP 1151270 A2 20011107; JP 2002536634 A 20021029; JP 3962851 B2 20070822

DOCDB simple family (application)

US 0002542 W 20000201; AU 2749700 A 20000201; EP 00905891 A 20000201; JP 2000597616 A 20000201