

Title (en)
ELECTROSTATIC PARTICLE SENSOR

Title (de)
ELEKTROSTATISCHER PARTIKELSENSOR

Title (fr)
DETECTEUR DE PARTICULES ELECTROSTATIQUE

Publication
EP 1920233 A1 20080514 (DE)

Application
EP 06792509 A 20060717

Priority
• EP 2006064316 W 20060717
• DE 102005039915 A 20050824

Abstract (en)
[origin: WO2007023035A1] The invention relates to an electrostatic particle sensor for sensing particles (P) in aerosols, particularly soot particles in exhaust gases. Said electrostatic particle sensor comprises a covered electrode (M) which has an effective flow volume (V) and is penetrated by a gas flow to be tested, an inner electrode (I) located inside the covered electrode, and a voltage source (U) that is in electrically conducting connection to both electrodes (M, I). The invention is characterized in that a potential which depends on the throughput (D) through the volume (V) per time unit (t) is impressed upon the voltage source (U).

IPC 8 full level
G01N 15/02 (2006.01)

CPC (source: EP US)
G01N 15/0266 (2013.01 - EP US); **G01N 1/2247** (2013.01 - EP US); **G01N 2001/2223** (2013.01 - EP US)

Citation (search report)
See references of WO 2007023035A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007023035 A1 20070301; DE 102005039915 A1 20070308; EP 1920233 A1 20080514; US 2009295400 A1 20091203

DOCDB simple family (application)
EP 2006064316 W 20060717; DE 102005039915 A 20050824; EP 06792509 A 20060717; US 99089406 A 20060717