

Title (en)
METHOD AND APPARATUS FOR AIRBORNE PARTICLE COLLECTION

Title (de)
VERFAHREN UND VORRICHTUNG ZUR LUFTPARTIKELSAMMLUNG

Title (fr)
PROCEDE ET APPAREIL POUR LA COLLECTE DE PARTICULES EN SUSPENSION DANS L'AIR

Publication
EP 1749196 A2 20070207 (EN)

Application
EP 05812962 A 20050527

Priority

- US 2005018760 W 20050527
- US 57480304 P 20040527
- US 65936205 P 20050307

Abstract (en)
[origin: WO2006025897A2] Embodiments of an apparatus for collecting biological aerosols from an air sample include a hollow tube adapted for pumping a liquid through an interior volume to an outer surface and a collection surface disposed on the outer surface and adapted for collecting the airborne particles from the surrounding air sample. Collection efficiency is enhanced by a charging mechanism that applies a charge to the airborne particles such that the airborne particles are deflected toward the collection surface. Embodiments of operation for the apparatus include the steps of providing the air sample, directing the air sample toward the hollow tube, and applying a charge to the airborne particles such that the airborne particles deposit on the collection surface/outer surface of said hollow tube.

IPC 8 full level
G01N 1/14 (2006.01)

CPC (source: EP KR)
G01N 1/04 (2013.01 - KR); **G01N 1/10** (2013.01 - KR); **G01N 1/22** (2013.01 - KR); **G01N 1/2202** (2013.01 - EP); **G01N 2001/2217** (2013.01 - EP)

Citation (search report)
See references of WO 2006025897A2

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
WO 2006025897 A2 20060309; WO 2006025897 A3 20061019; EP 1749196 A2 20070207; IL 178900 A0 20070308;
JP 2008500542 A 20080110; KR 20070026653 A 20070308

DOCDB simple family (application)
US 2005018760 W 20050527; EP 05812962 A 20050527; IL 17890006 A 20061026; JP 2007515394 A 20050527; KR 20067027315 A 20061226