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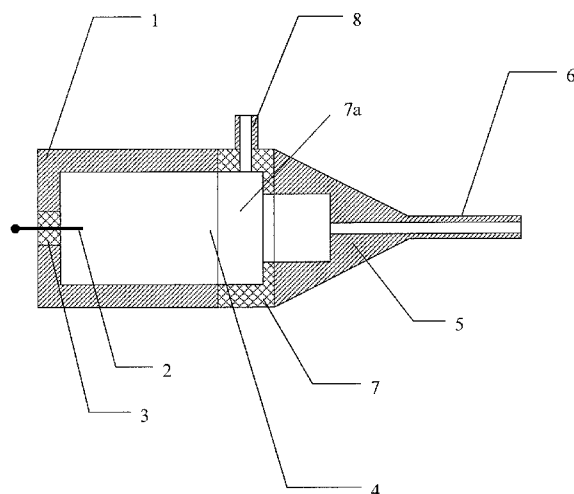
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[Continued on next page]

(54) Title: APPARATUS FOR CHARGING OR ADJUSTING THE CHARGE OF AEROSOL PARTICLES

Figure 1



(57) Abstract: The invention provides an apparatus for charging or altering the charge of gas-entrained particles in an aerosol, the apparatus comprising: (a) an ion generating chamber (1) containing a first electrode (2) for generating a corona discharge, the first electrode (2) being connected to a power supply of sufficiently high voltage to create the corona discharge; the ion generating chamber (1) having an ion outlet (10) through which ions generated by the corona discharge can leave the chamber (1); (b) a particle charging chamber (5) in which charging or altering the charge of gas-entrained particles in an aerosol takes place, the particle charging chamber (5) being in fluid communication with the ion generation chamber (1) and having an inlet and an aerosol outlet; and (c) an electrically non-conductive interface body (7) positioned between the aerosol particle charging chamber (5) and the ion generating chamber (1), the interface body (7) having a hollow interior which is in fluid communication with the ion generating chamber (1) and the aerosol particle charging chamber, and having a gas inlet (8) through which a stream of gas can be introduced into the hollow interior of the interface body (7).



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. H01J27/26 H01J49/14 H01J49/16
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/78447 A1 (TSI INC [US]) 28 December 2000 (2000-12-28) pages 9-13; figures 1-6,13 page 1, lines 7-9 page 15, lines 22-28	1-21
A	FI 20 116 250 A (PEGASOR OY [FI]) 9 June 2013 (2013-06-09) the whole document	1-21
A,P	& WO 2013/083879 A2 (PEGASOR OY [FI]; JANKA KAUKO [FI]) 13 June 2013 (2013-06-13) abstract; figure 5	1-21
A	US 2005/083633 A1 (RIEBEL ULRICH [DE] ET AL) 21 April 2005 (2005-04-21) abstract; figures 3,4	1-21



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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