

[54] APPARATUS FOR SAMPLING AND CHARACTERIZING AEROSOLS

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[21] Appl. No.: 599,110

[22] Filed: Apr. 11, 1984

[51] Int. Cl.⁴ G01N 1/22

[52] U.S. Cl. 73/863.22; 73/863.21; 73/863.31; 422/88

[58] Field of Search 73/28, 863.21, 863.22, 73/863.31; 422/83, 86, 88

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[57] ABSTRACT

Apparatus for sampling and characterizing aerosols having a wide particle size range at relatively low velocities may comprise a chamber having an inlet and an outlet, the chamber including: a plurality of vertically stacked, successive particle collection stages; each collection stage includes a separator plate and a channel guide mounted transverse to the separator plate, defining a labyrinthine flow path across the collection stage. An opening in each separator plate provides a path for the aerosols from one collection stage to the next. Mounted within each collection stage are one or more particle collection frames.

10 Claims, 6 Drawing Figures

