

Title: Micro-machined Aerodynamic Lens Particulate Concentrator

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Abstract:

Environmental testing and homeland security issues have increased interest in the detection and rapid identification of small particles in the air, especially in the sub-micron to 10 micron respirable range. It is anticipated that particles would be in very low concentrations, and to avoid having to sample huge volumes of air in order to collect enough material to analyze, particle concentrators are needed.

We will discuss a simple aerodynamic lens device that may be used for concentrating aerosols, and how it can be fabricated using micro-machining techniques.

