

FP:(Nanozen Industries Inc)

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1. [20200182773](#) ONE DIMENSIONAL BEAM HOMOGENIZATION WITH A SINGLE ASPHERIC LENS FOR ACCURATE PARTICLE SIZING INSTRUMENTATION

US - 11.06.2020

Int.Class [G01N 15/14](#) **Appl.No** 16041951 **Applicant** Nanozen Industries Inc. **Inventor** Jingwen Li

Beam homogenization with a single aspheric lens that converts the divergent Gaussian intensity profile of a laser diode beam to a convergent beam with a one-dimension flat top profile, which enhances the accuracy of a particle sizing instrument by delivering a uniform amount of energy across an aerosol microfluidic channel.

2. [20200132581](#) DIGITAL HOLOGRAPHY WITH AN INTERNAL IMPACTOR FOR PARTICLE IMAGING, CLASSIFICATION, AND MASS DENSITY CHARACTERIZATION

US - 30.04.2020

Int.Class [G01N 15/02](#) **Appl.No** 16670953 **Applicant** Nanozen Industries Inc. **Inventor** Jingwen Li

A method and apparatus for monitoring particulate concentrations in ambient air use digital in-line holography and automated digital algorithms to classify and determine mass density and other characteristics of particles within a determined mass and size range. An embodiment provides a sampling plate on which particles are deposited at locations which depend on sizes and masses of the particles. A digital in-line hologram of the sampling plate is processed to obtain information about the particles. The method and apparatus have example application to environmental monitoring.



