



AEROSOL JET PRINTER PROVIDING IN-FLIGHT AEROSOL CHARACTERIZATION

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Inventors: Scott Sanders, Joseph Andrews, Mario Trujillo

Overview

Real-time measurement of the printed line of an aerosol jet printer provides a good indication of whether the printing process is correctly configured. However, the complexity of the printing process means that this endpoint measurement may not uniquely indicate the necessary process variables that need to be adjusted when print line quality decreases.

The Invention

UW Madison researchers have developed a tool to make a droplet field measurement of the aerosol jet from the nozzle before it is deposited on the substrate. This enables droplet field measurement of velocity and mass distributions. The information from these distributions, lost after material is deposited on the substrate, allows superior control of the process variables that ultimately affect line quality.

Additional Information

For More Information About the Inventors

- [Joseph Andrews](#)
- [Scott Sanders](#)
- [Mario Trujillo](#)

Tech Fields

- [Engineering : Additive manufacturing](#)

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867