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(71) Applicant: **SPRAYING SYSTEMS CO.** [US/US]; North Avenue and Schmale Road, P.O. Box 7900, Wheaton, Illinois 60187-7901 (US).

(72) Inventors: **ACKERMAN, Thomas, Elliot**; 184 Poor Farm Road, Francestown, New Hampshire 03043 (US). **RUSCH, Jason, Tyler**; 103A Nartoff Road, Holus, New Hampshire 03049 (US). **SIT, Lyndon, John, Wee**; 65 Ferry Street, Hudson, New Hampshire 03051 (US).

(74) Agent: **JOY, Mark**; Two Prudential Plaza, 180 North Stetson Avenue - Suite 4900, Chicago, Illinois 60601 (US).

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(54) Title: ELECTROSTATIC SPRAY NOZZLE INCLUDING INDUCTION RING

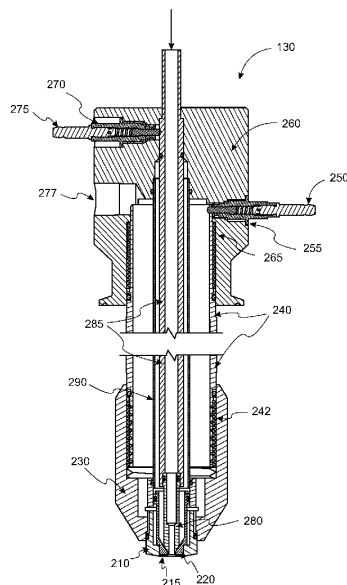


FIG. 2A

(57) Abstract: An electrostatic spray nozzle assembly (130) is described that includes an induction ring (210) and a fluid tip (280). The induction ring generates an electrical field for inducing an electrical charge on droplets of a feedstock liquid from the fluid tip that pass through an opening (215) of the induction ring. The induction ring is electrically coupled to an electrical induction field source (250) via a first conductive path provided by conductive surfaces of: a nozzle head (230) holding the induction ring, and a purge gas tube (240) holding the nozzle head. Feedstock flowing through the fluid tip is electrically coupled to a charge carrier source (275) via a second conductive path provided by at least a conductive surface of a fluid tube (285) coupled to the fluid tip. The first conductive path and the second conductive path are electrically isolated by an insulating barrier.

WO 2023/192245 A1