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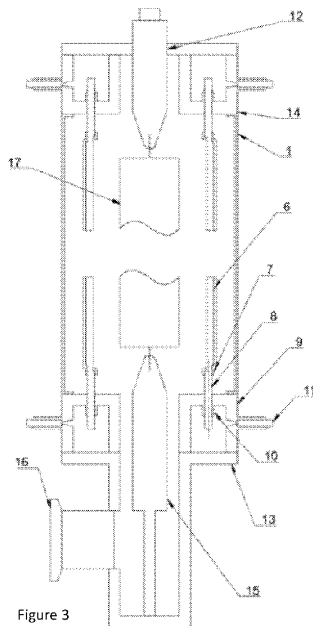


Figure 3

(57) Abstract: Particle production apparatuses and systems comprising the same are provided. A particle producing apparatus of the inertial electrostatic confinement type comprises a vessel, an anode structure and a cathode structure, wherein the anode structure and cathode structure are positioned within the vessel. The particle production apparatus further comprises a first enriched surface that is enriched with fusible isotope species, wherein the first enriched surface is at least a part of a surface of the anode structure or a surface of the cathode structure.

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