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(54) Title: 3D PRINTED INTEGRATED GAS MIXER

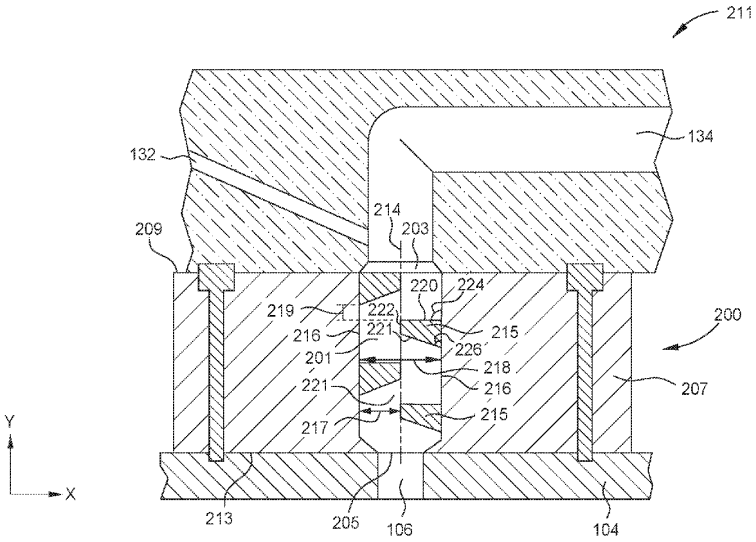


FIG. 2A

(57) Abstract: Embodiments of the present disclosure generally relate to mixing gases for deposition processes. Specifically, the disclosure relates to a 3D printed single piece gas mixer that mixes a plurality of gases prior to the gases entering a processing chamber. In one embodiment a mixer is provided. The mixer includes a body, an inlet, an outlet, and a hollow passage. The hollow passage is disposed through the body and fluidly connects the inlet to the outlet. The hollow passage includes a sidewall. The mixer further includes a plurality of fins formed on the sidewall. The plurality of fins extend into the hollow passage, and the plurality of fins and the sidewall form a monolithic structure.

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