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(54) Title: SHOWERHEAD WITH IMPROVED SUPPORTING POSTS

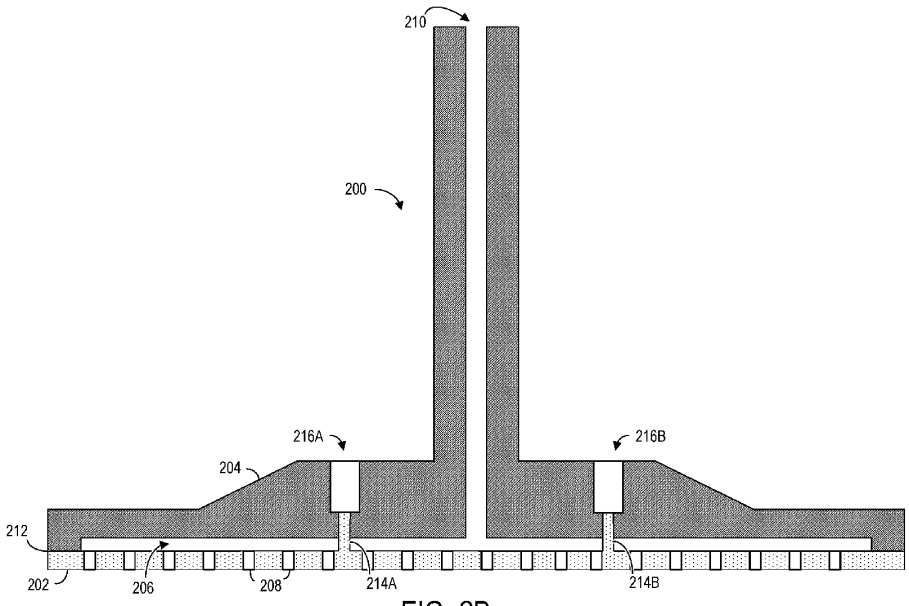



FIG. 2B

(57) Abstract: One example provides a showerhead for a substrate processing tool. The showerhead comprises a faceplate comprising a plurality of outlet holes; a backplate coupled to the faceplate, the backplate comprising a plurality of post access holes; a plenum between the faceplate and backplate; and a plurality of posts connecting the faceplate and the backplate, each post of the plurality of posts extending from the faceplate into a corresponding post access hole in the backplate, each post comprising a post shoulder recessed within the backplate relative to a plenum-facing surface of the backplate, and each post having a post diameter between the faceplate and the post shoulder that is smaller than a hole diameter of a post accommodation portion of the corresponding post access hole into which the post extends.

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