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(54) Title: SHOWERHEAD FOR SUBSTRATE PROCESSING SYSTEMS

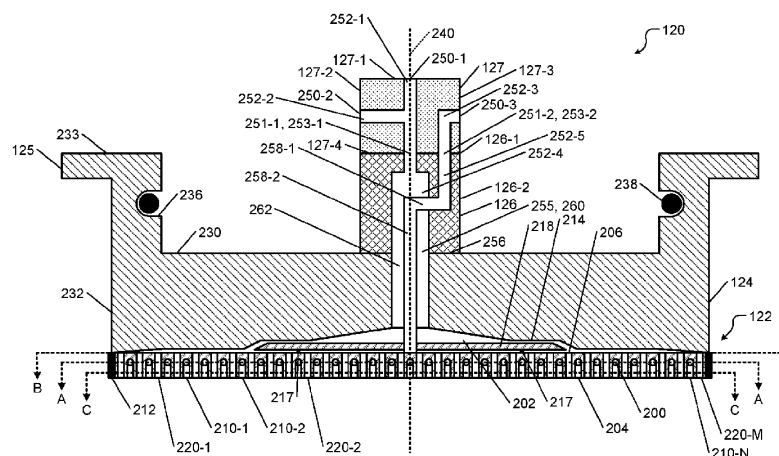


FIG. 3

(57) Abstract: A dual-plenum showerhead for a substrate processing system comprises a base portion and a backplate. The base portion comprises a first surface facing a substrate, a second surface opposite the first surface, and a sidewall extending between the first surface and the second surface. The first and second surfaces are flat. The first and second surfaces and the sidewall define a first plenum. The backplate comprises a shaped surface extending from a center portion of the backplate to a periphery of the backplate. The shaped surface comprises a plurality of portions. At least one of the portions is parallel to the base portion. At least one of the portions slopes towards the base portion. The periphery of the backplate is attached to the second surface of the base portion defining a second plenum.

[Continued on next page]

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