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(54) Title: LOCALIZED PLASMA ARC PREVENTION VIA PURGE RING

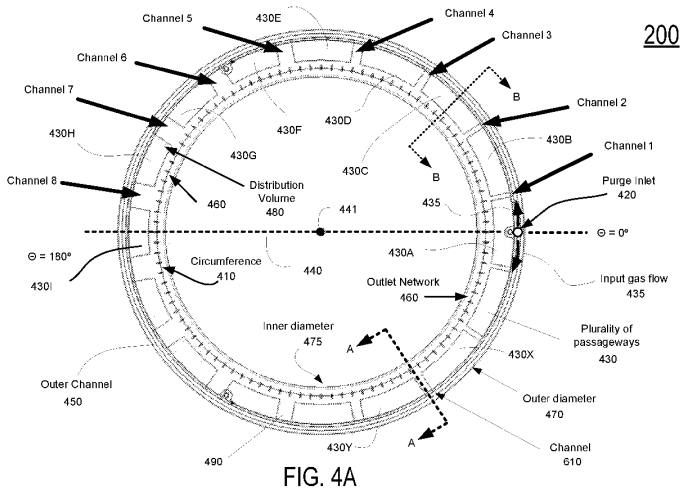


FIG. 4A

(57) Abstract: A purge ring including a supply port configured for receiving gas. An outer channel is connected to the supply port. An outlet network is configured for an exit flow of the gas proximate to an inner diameter of the purge ring. The purge ring includes a plurality of channels configured for flow of the gas in a radial direction from the outer channel to the outlet network. The purge ring includes a plurality of passageways configured for reduced flow of the gas in the radial direction between the outer channel and the outlet network. The plurality of channels and the plurality of passageways are configured for providing a uniform pressure of the exit flow of the gas across the outlet network circumference.

[Continued on next page]

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