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(54) Title: REPLACEABLE AND/OR COLLAPSIBLE EDGE RING ASSEMBLIES FOR PLASMA SHEATH TUNING INCORPORATING EDGE RING POSITIONING AND CENTERING FEATURES

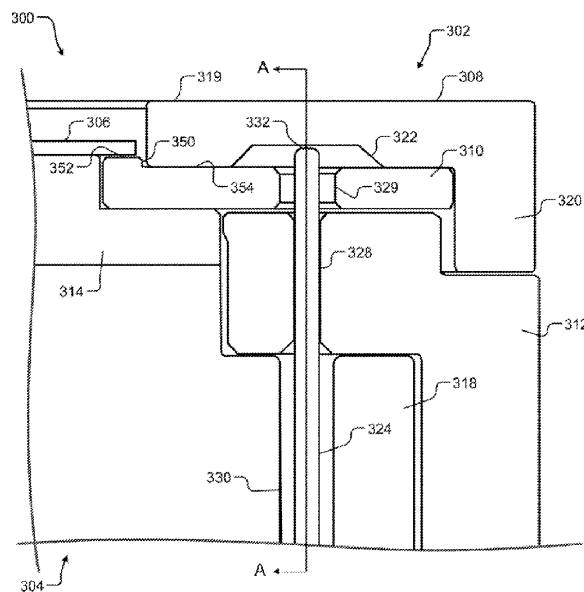


FIG. 3A

(57) Abstract: A first edge ring for a substrate support is provided. The first edge ring includes an annular-shaped body and one or more lift pin receiving elements. The annular-shaped body is sized and shaped to surround an upper portion of the substrate support. The annular-shaped body defines an upper surface, a lower surface, a radially inner surface, and a radially outer surface. The one or more lift pin receiving elements are disposed along the lower surface of the annular-shaped body and sized and shaped to receive and provide kinematic coupling with top ends respectively of three or more lift pins.

[Continued on next page]

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