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(54) Title: SUBSTRATE PROCESSING APPARATUS WITH COMPOSITE SEAL

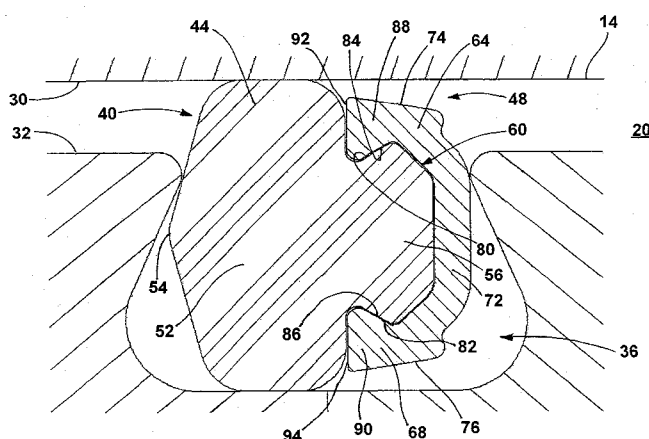


FIG. 3

(57) Abstract: A seal (40) for sealing an interface between a container (12) and a lid (14) of a process chamber. The seal (40) comprises a first seal element (44) and a second seal element (48) that are arranged to seal (40) the interface in series, with the second seal element (48) being situated to encounter processing activity upstream of the first seal element. The first seal element (44) has a deflectable portion and a protrusion extending radially from the deflectable portion. The second seal element (48) has a radially extending recess in which the protrusion of the first seal element (44) is received. The protrusion and recess interlock to restrict separation and/or rotation of the first and second seal element (48)s (44, 48). Inclined surfaces (80, 82) of the first seal element (44) interact with the second seal element (48) to apply axial sealing forces to sealing surfaces (74, 76) of the second seal element (48).

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