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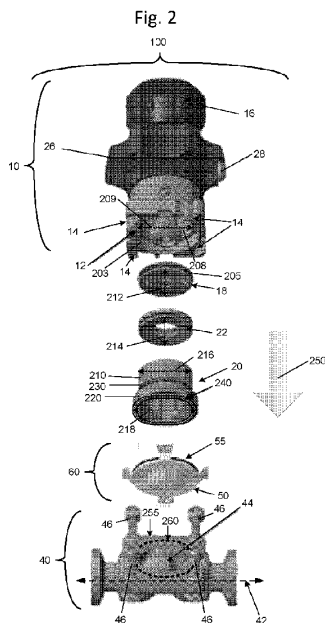
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- (54) **Title:** TRANSITION PRESSURE RING



(57) **Abstract:** Technologies are described for devices and methods to seal a diaphragm to a body exterior seal periphery. The methods may comprise rotating a handwheel of a bonnet assembly to move a load plate to apply a compression force to a top portion of a transition pressure ring. The top portion of the transition pressure ring may have a circular cross section. A bottom portion of the transition pressure ring may include a bead that may project out from a bottom surface of the bottom portion and may have a congruent shape and size as the body exterior seal periphery. The body exterior seal periphery may not be congruent to the circular cross section of the top portion. The compression force may press the bead against a diaphragm assembly and the diaphragm against the body exterior seal periphery, to seal the diaphragm to the body exterior seal periphery.

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