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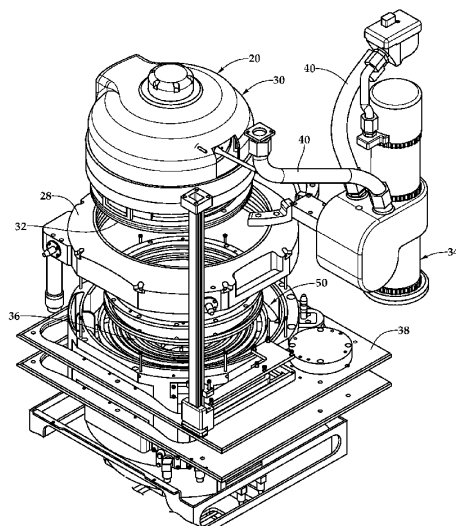


Fig.1

(57) Abstract: An electroplating system has a vessel assembly holding an electrolyte. A weir thief electrode assembly in the vessel assembly includes a plenum inside of a weir frame. The plenum divided into at least a first, a second and a third virtual thief electrode segment. A plurality of spaced apart openings through the weir frame lead out of the plenum. A weir ring is attached to the weir frame and guides flow of current during electroplating. The electroplating system provides process determined radial and circumferential current density control and does not require changing hardware components during set up.

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