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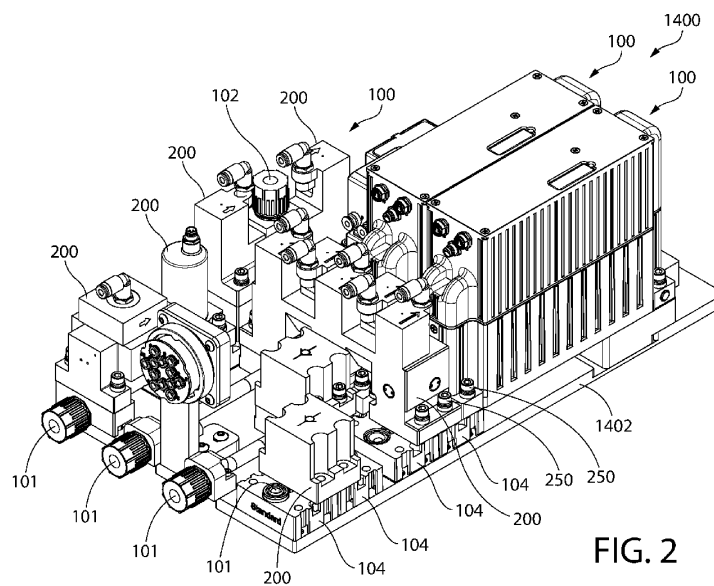


FIG. 2

(57) Abstract: Fluid delivery systems are important component assemblies used for semiconductor fabrication. These fluid delivery systems rely on assemblies of components, requiring seals which must be installed and replaced during assembly and maintenance of the fluid delivery systems. Seals may be arranged as seal rings which engage substrate blocks or active components, the seal rings having seal retention features which aid in assembly. These seal retention features may increase the retention force of the seal in a seal cavity or may reduce the force required to retain the seal. In other arrangements, the seal cavities of the substrate blocks or active components may incorporate seal retention features.

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