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(54) Title: FLUID DELIVERY MODULE

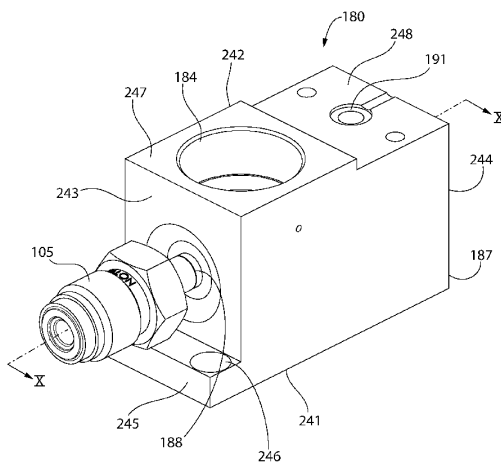


FIG. 9

(57) Abstract: Apparatuses for controlling fluid flow are important components for delivering process fluids for semiconductor fabrication. These apparatuses for controlling fluid flow require a variety of fluid flow components which are tightly packaged within the apparatuses for controlling flow. In an effort to improve packaging density, fluid delivery modules preferably incorporate both active and passive components into a single substrate block. This enables increases in packaging density as well as enabling reduced cost through greater simplification of the fluid delivery module. For instance, incorporating a filter to filter incoming fluid with a valve or other component in a single monolithic block avoids the need for separate components which add cost and complexity.

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