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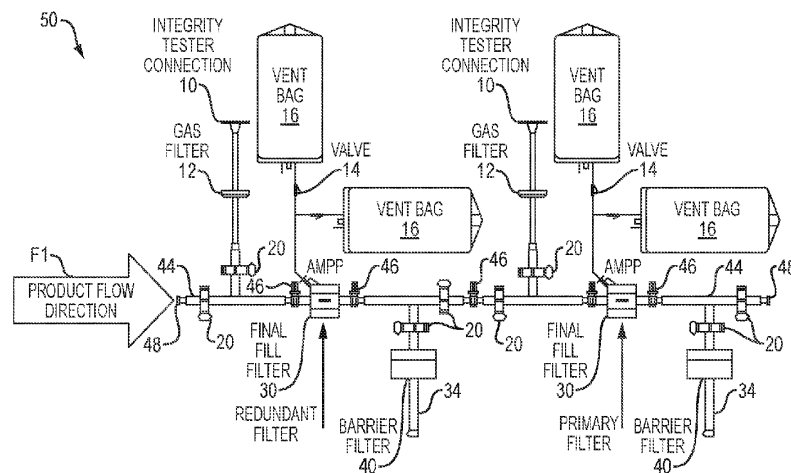


FIG. 1

(57) Abstract: Apparatus and methods for redundant filtration assemblies containing filters comprising a multi-purpose vent port are disclosed, wherein the redundant filtration assemblies reduce the amount of components and overall size of the assemblies, promoting the minimization of product losses. A method(s) to conduct pre-use post-sterilization integrity test (PUPSIT) are also disclosed.

[Continued on next page]

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