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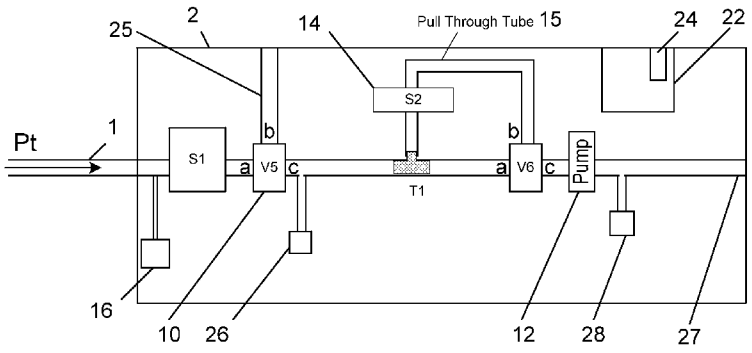
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Figure 2



(57) Abstract: A breath analysis device is described which obtains a desired segment of one or more breaths, and analyzes that or those samples for compositional analysis. A pneumatic control system may obtain these segments homogeneously, may reduce the amount of gases included from other segments of the breath, and may reduce mixing with other segments once obtained. These pneumatic control systems can be used for on-board compositional analysis, or for modular or off -board compositional analysis.

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