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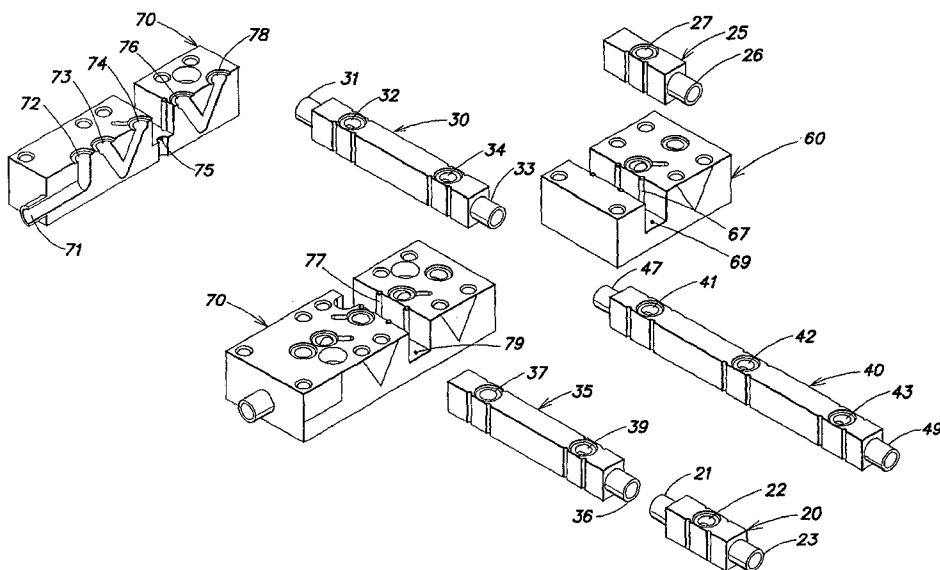
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(54) Title: MODULAR SUBSTRATE GAS PANEL HAVING MANIFOLD CONNECTIONS IN A COMMON PLANE



(57) Abstract: A gas panel comprising a first gas stick, a second gas stick, and a first manifold. The first gas stick has a first flow path that includes a first plurality of ports formed in a common plane, and the second gas stick has a second flow path that includes a second plurality of ports formed in the common plane. The first manifold has first and second ports formed in the common plane, the first port being fluidly connected to one port of the first plurality of ports of the first gas stick, and the second port being fluidly connected to one port of the second plurality of ports of the second gas stick. A thermally and vibrationally insulating mounting assembly may be used to mount the first and second gas sticks to a mounting plate.

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