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(54) **GAS TRANSPORTATION DEVICE**

(57) A gas transportation device (1) includes an inlet plate (17), a substrate (11), a resonance plate (13), an actuating plate (14), a piezoelectric component (15) and an outlet plate (16) stacked sequentially. The gas transportation device (1) includes a valve (10) disposed within at least one of the inlet (170) of the inlet plate (17) and the outlet (160) of the outlet plate (16). A first chamber (18) is formed between the resonance plate (13) and the actuating plate (14), and a second chamber (19) is formed between the actuating plate (14) and the outlet plate (16). When the piezoelectric component (15) drives

the actuating plate (14), a pressure gradient is formed between the first and second chambers (18, 19) and the valve (10) is opened. Accordingly, gas is inhaled into the convergence chamber (12) via the inlet (170), transported into the first chamber (18) through a central aperture (130) of the resonance plate (13), transported into the second chamber (19) through a vacant space (143) of the actuating plate (14), and then discharged out from the outlet (160), so as to transport the gas.

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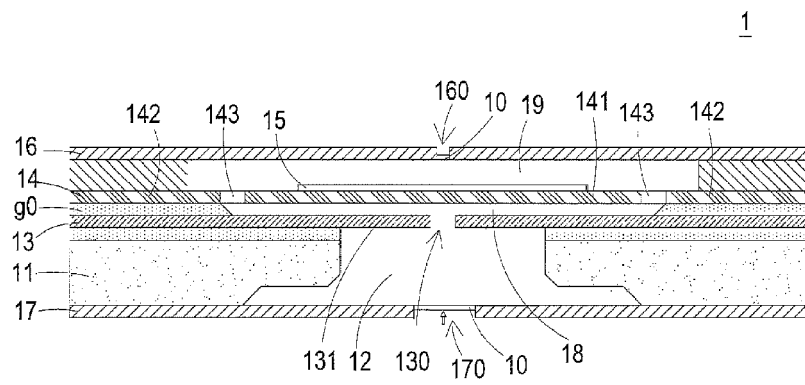


FIG. 1