

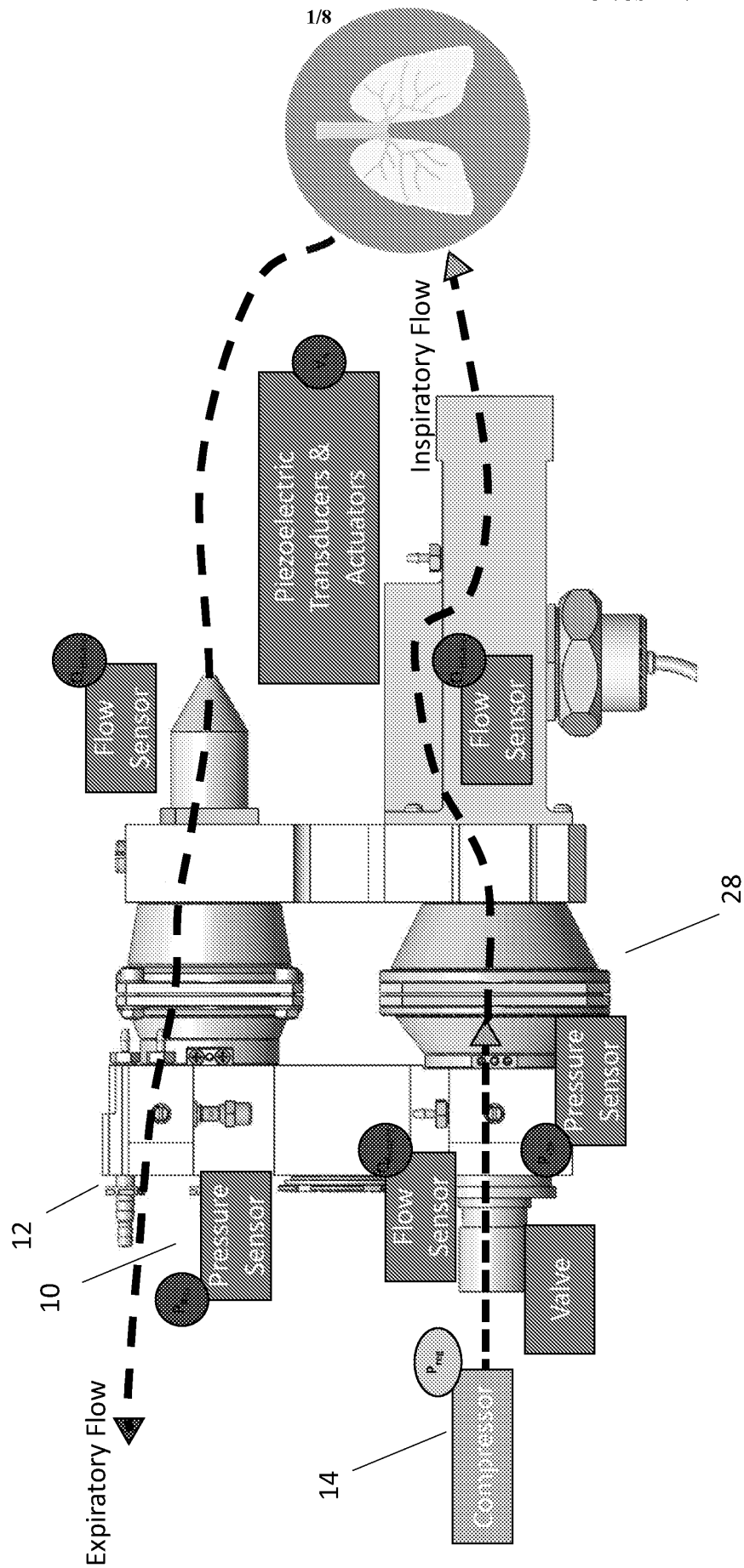


Fig. 1

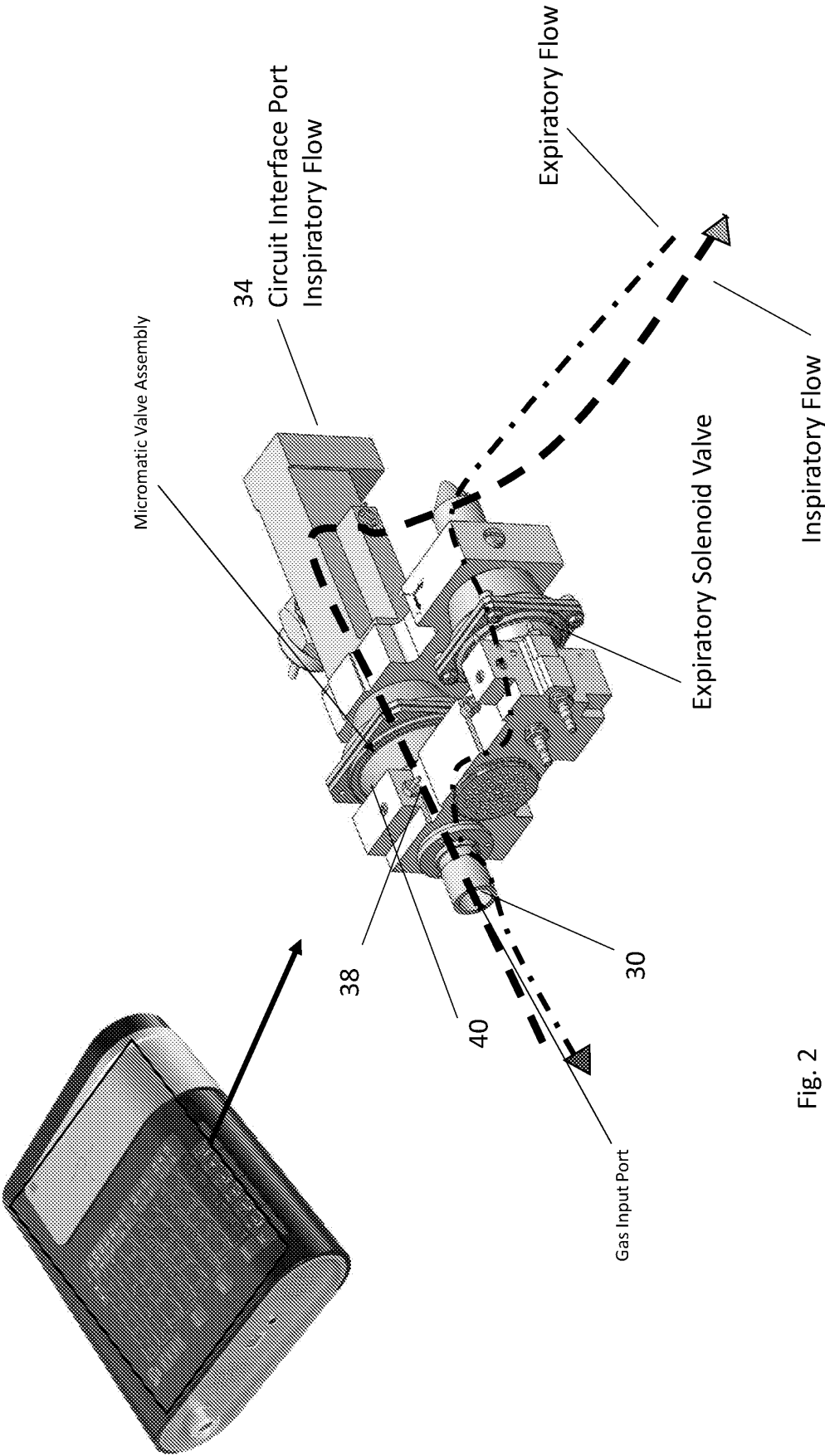


Fig. 2

ITEM NO	DESCRIPTION
1	Valve Housing
2	Valve Gate
3	Actuator Assembly
4	Fixture Assembly
5	Micron Screw
6	Plunger Assembly
7	Valve Gasket Seal
8	Valve Articulator
9	Pressure Sensor
10	Flow Sensor

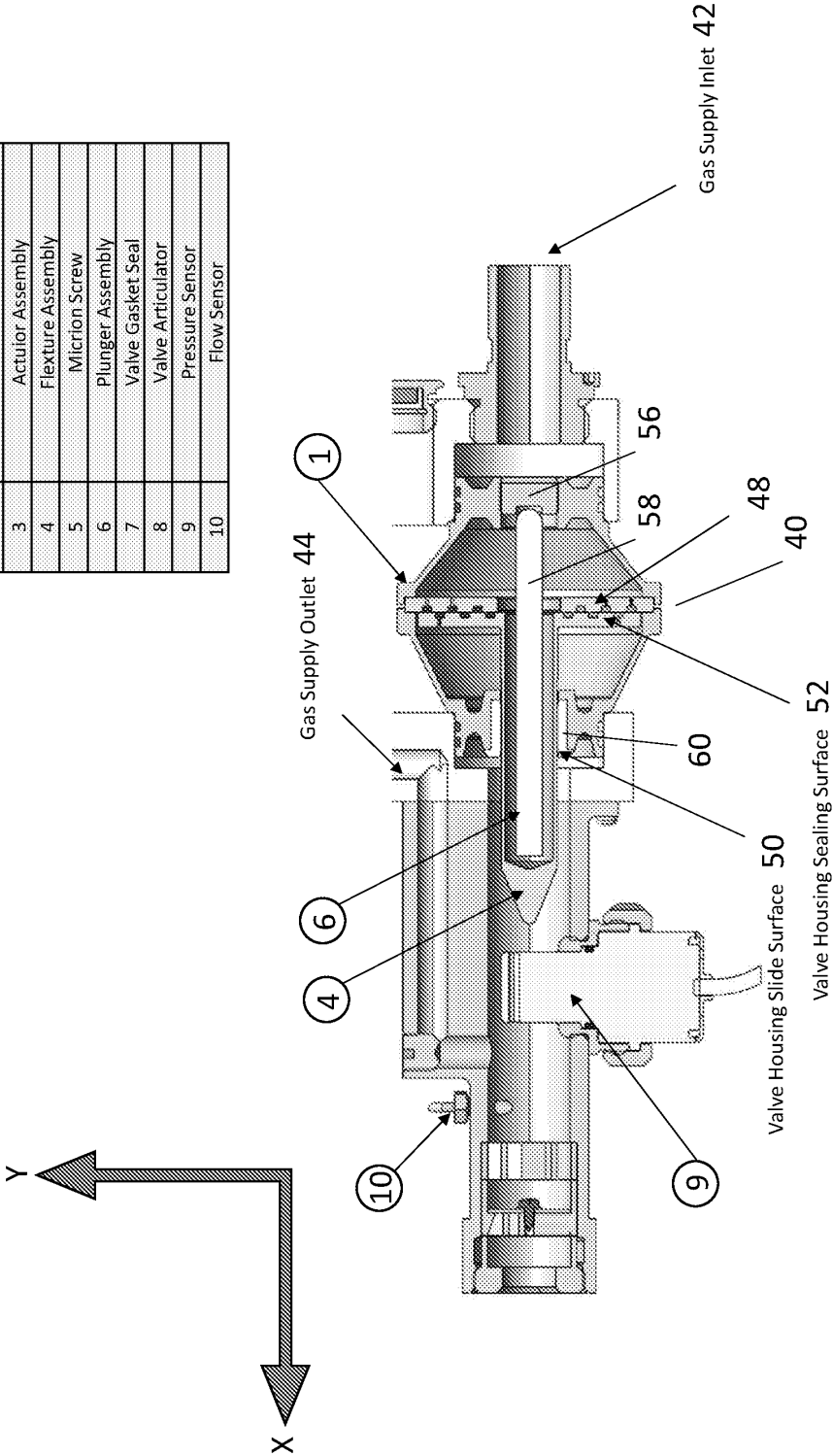


Fig. 3

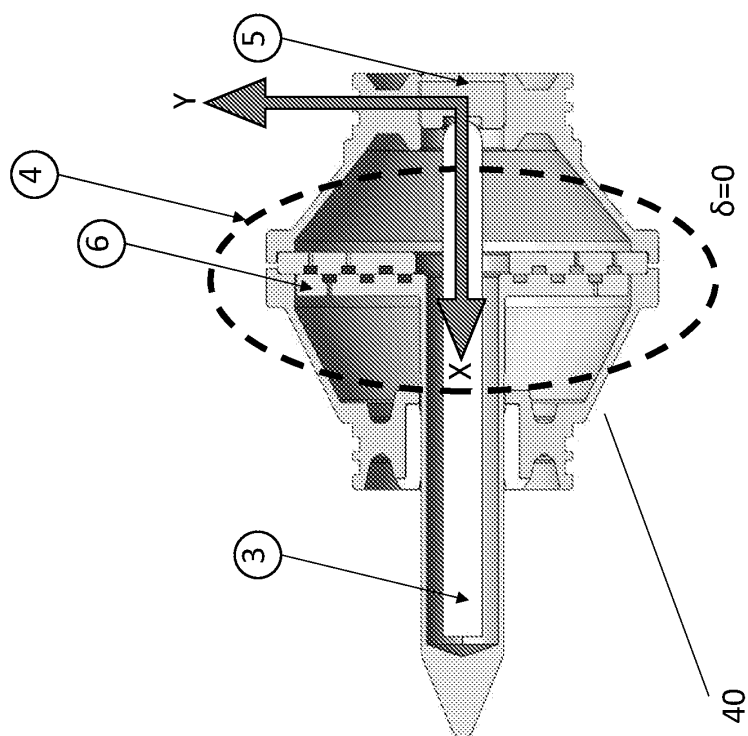


Fig. 4

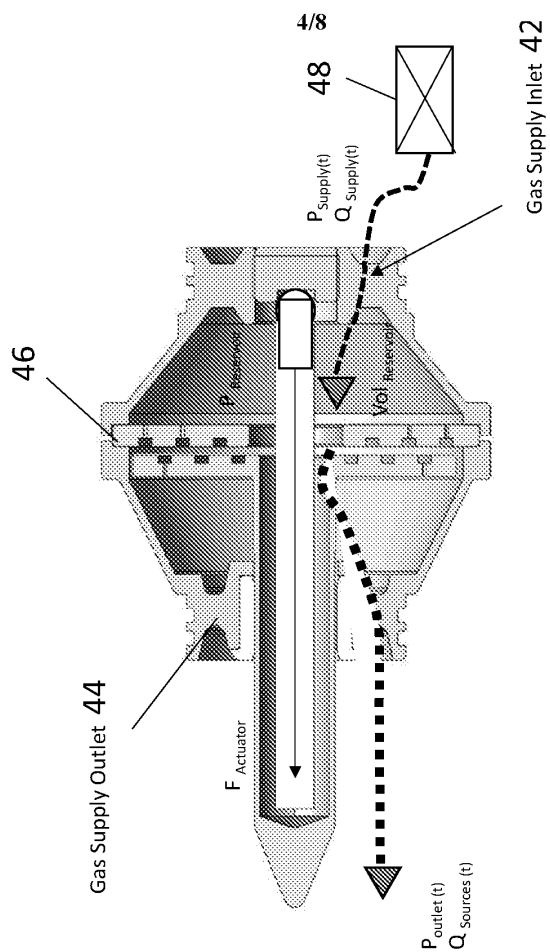
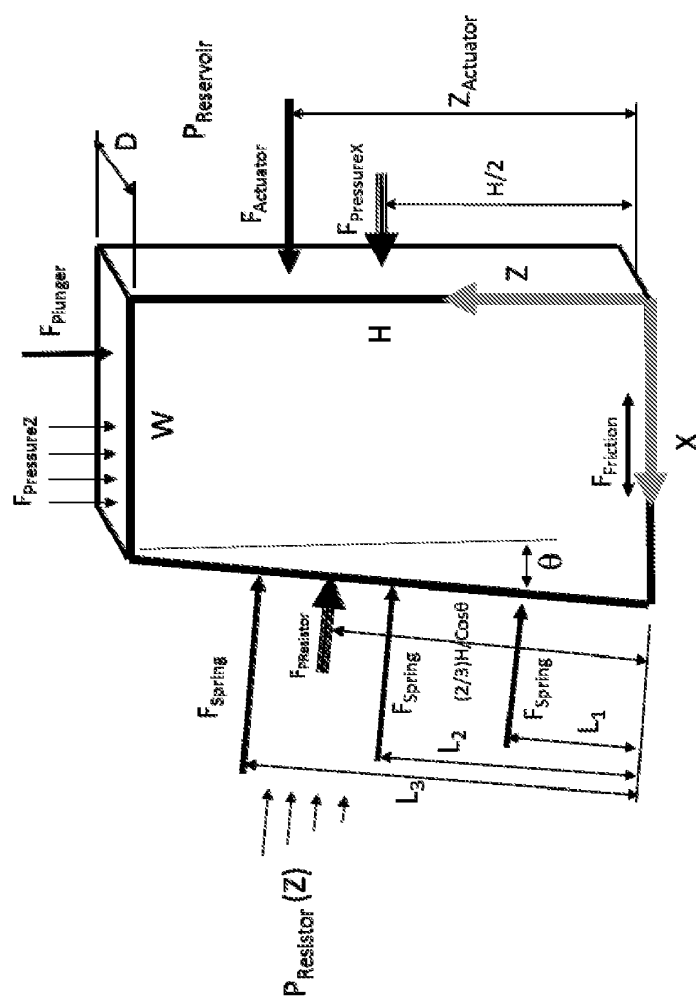


Fig. 5

Section A-A
Valve Open δ
 $R_{\text{valve}}(\delta) = (P_{\text{reservoir}} - P_{\text{outlet}}) / Q_{\text{source}}$



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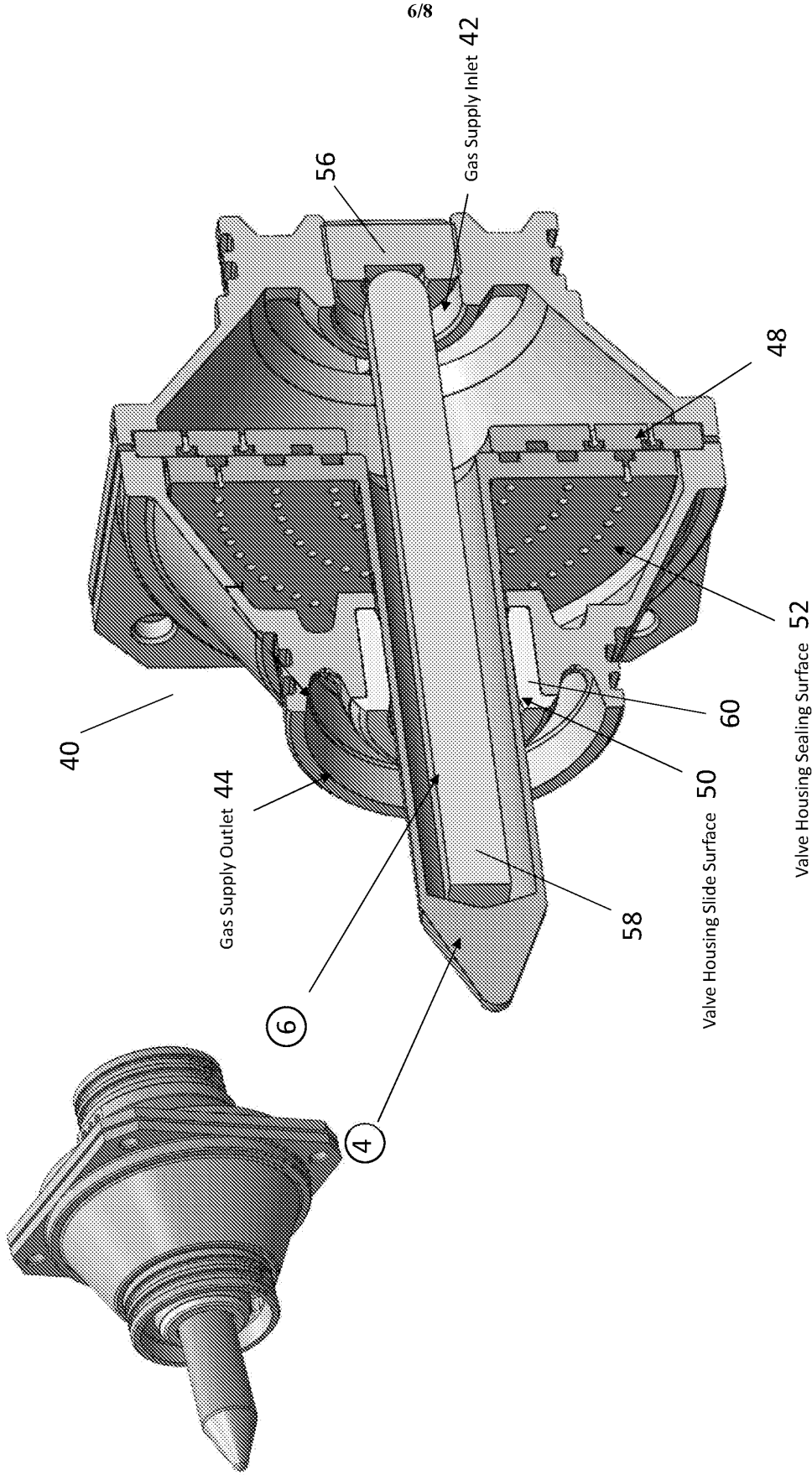


Fig. 7

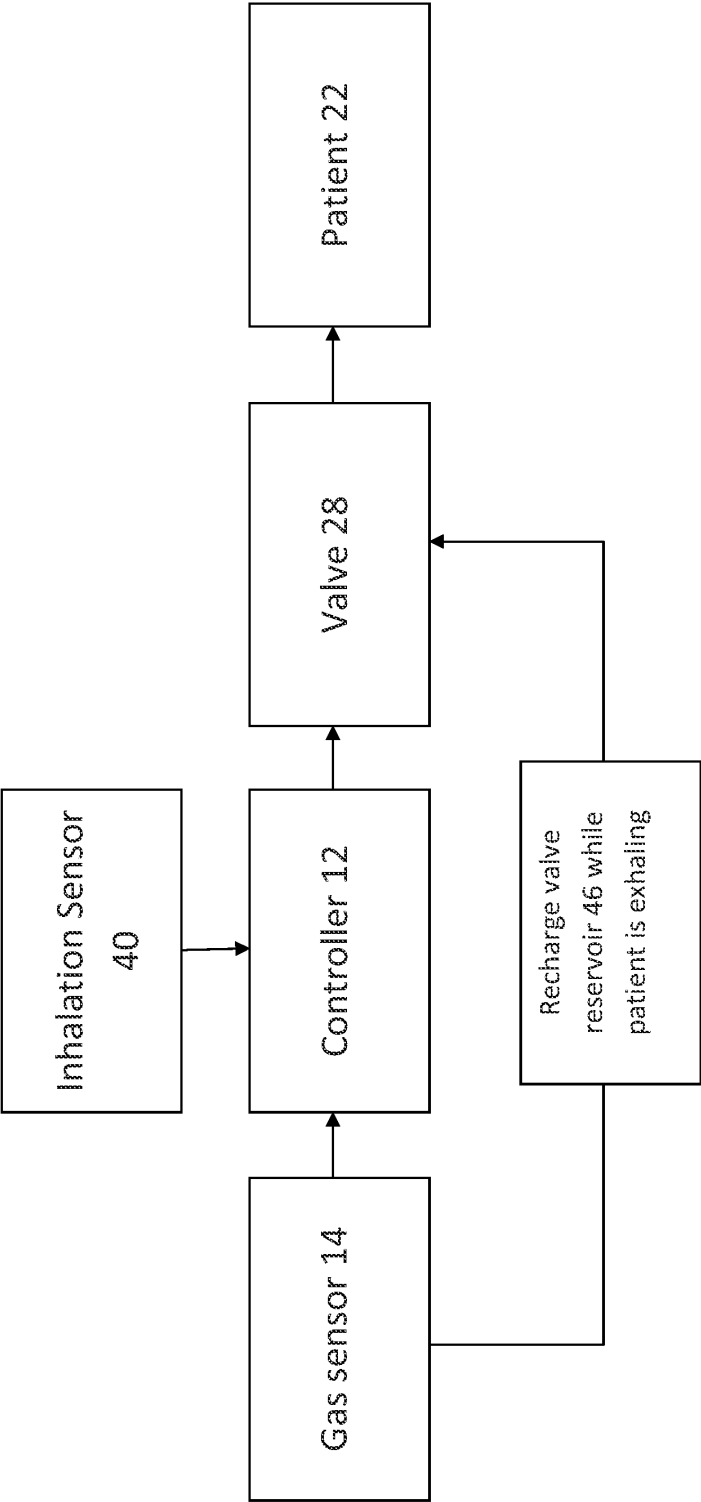


Fig. 8

Patient-Ventilator Interaction During Noninvasive Ventilation

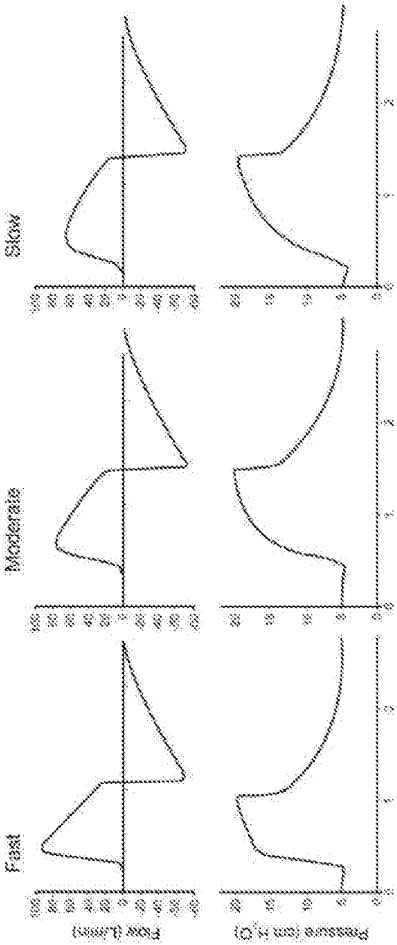


Fig. 9A

Fig. 9B

Fig. 9C

Flow and pressure waveforms for 3 rise times (pressurization rates) at a pressure support of 20cm H₂O. Note the effect of rise time on flow at the initiation of the inspiratory phase. (Adapted from Reference 44).