

# EXHIBIT 5

- [54] CAPACITIVE PRESSURE TRANSDUCER FOR USE IN RESPIRATOR APPARATUS
- [76] Inventor: Kenneth H. Ball, 30003 Via Victoria, Rancho Palos Verdes, Calif. 90274
- [21] Appl. No.: 685,687
- [22] Filed: Apr. 16, 1991
- [51] Int. Cl.<sup>5</sup> ..... G01L 9/12
- [52] U.S. Cl. .... 73/718; 128/204.23; 128/716; 361/283
- [58] Field of Search ..... 73/718, 724; 361/283; 128/204.23, 204.26, 716, 722

- [56] **References Cited**
- U.S. PATENT DOCUMENTS
- 5,052,400 10/1991 Dietz ..... 128/722

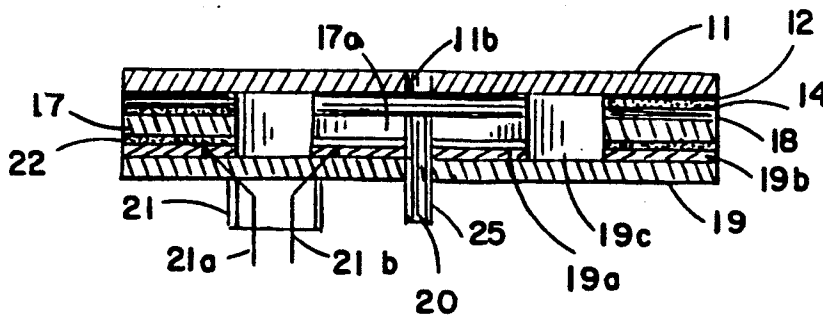
Primary Examiner—Donald O. Woodiel  
 Attorney, Agent, or Firm—Edward A. Sokolski

[57] **ABSTRACT**

An electrically conductive diaphragm is sandwiched

between a first and second board member. One of said board members has a metallic plate thereon, there being a non conductive spacer having an opening therein separating such board member from the diaphragm. The board members, diaphragm and spacer are joined together to form an integral assembly, the portion of the diaphragm opposite the opening in the spacer being free to move in such opening towards the board member with the metallic plate, motion of the diaphragm away from the spacer being prevented by the other board member. A respiratory gas inlet is provided through the board member with the metallic plate to the opening in the spacer. The diaphragm and metallic plate form a capacitor the capacitance of which is varied in response to the pressure differential between the gas inlet and the atmosphere, the diaphragm only being free to move towards the metallic plate in response to negative pressures (suction) induced during inspiration by a patient.

10 Claims, 3 Drawing Sheets



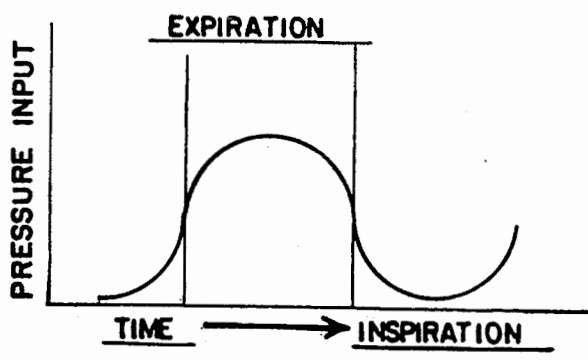


FIG. 1A

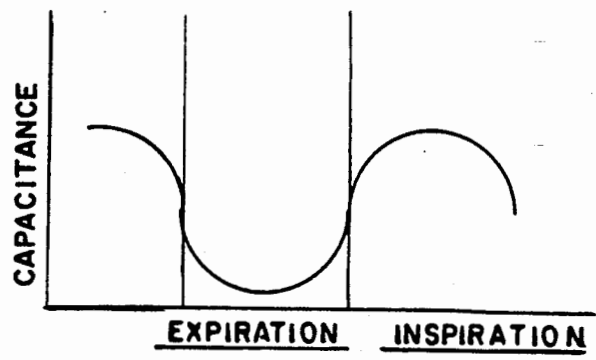


FIG. 1B

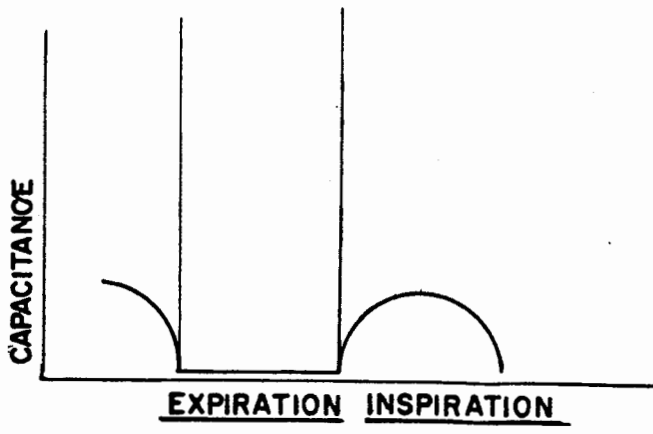


FIG. 1C

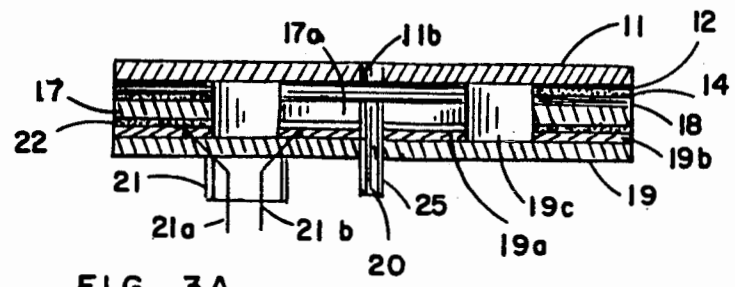


FIG. 3A

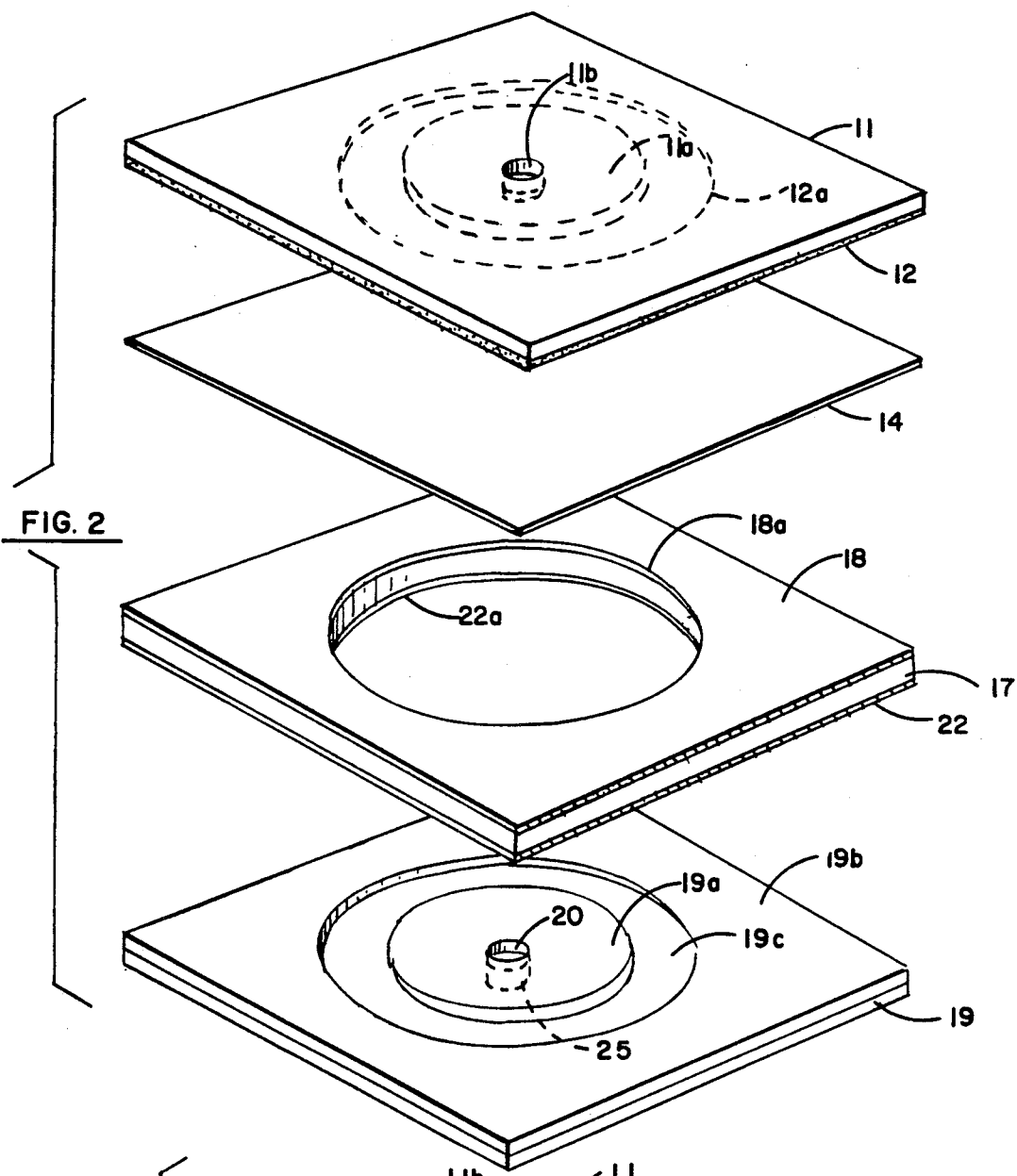


FIG. 2

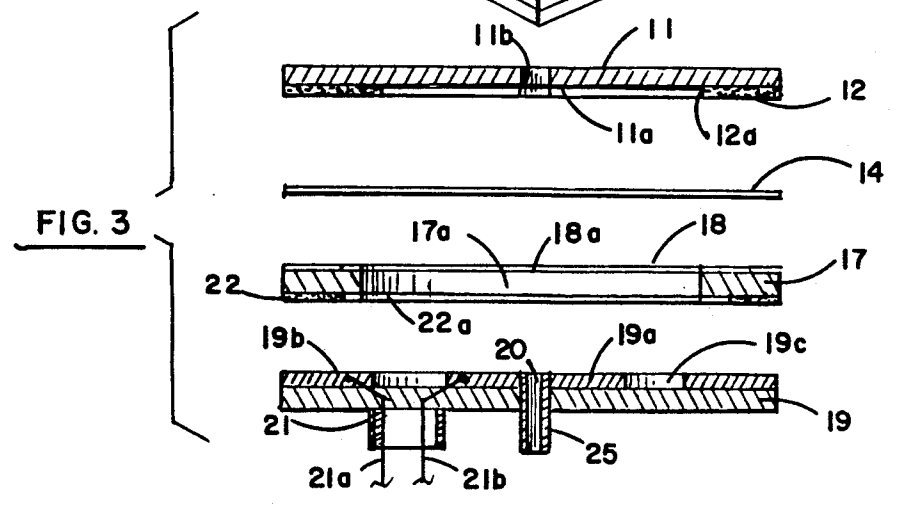
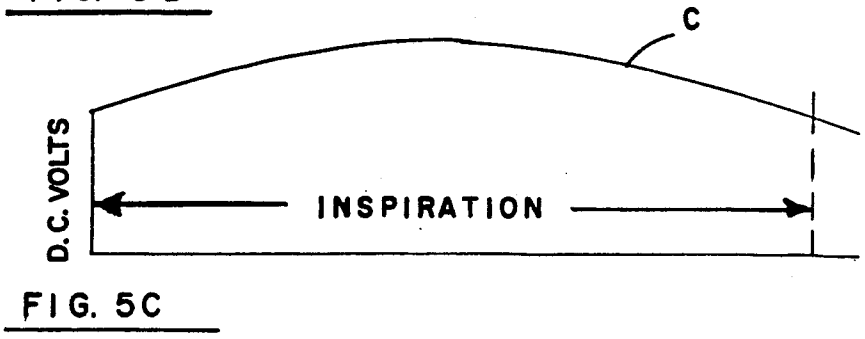
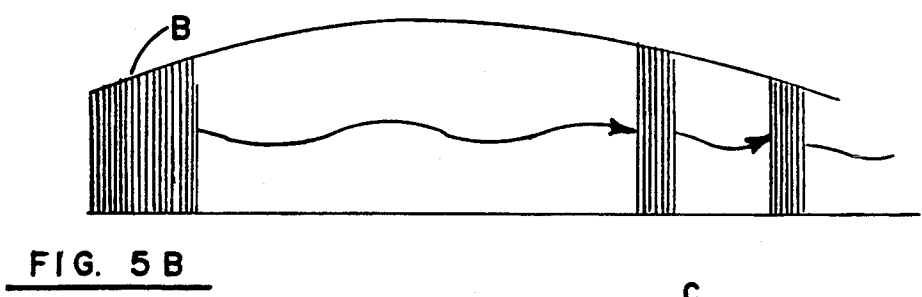
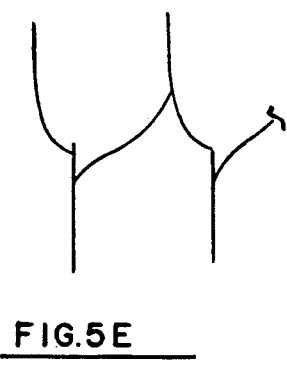
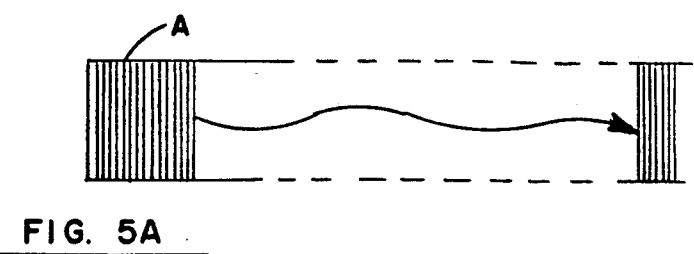
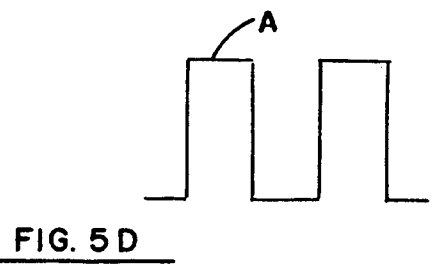
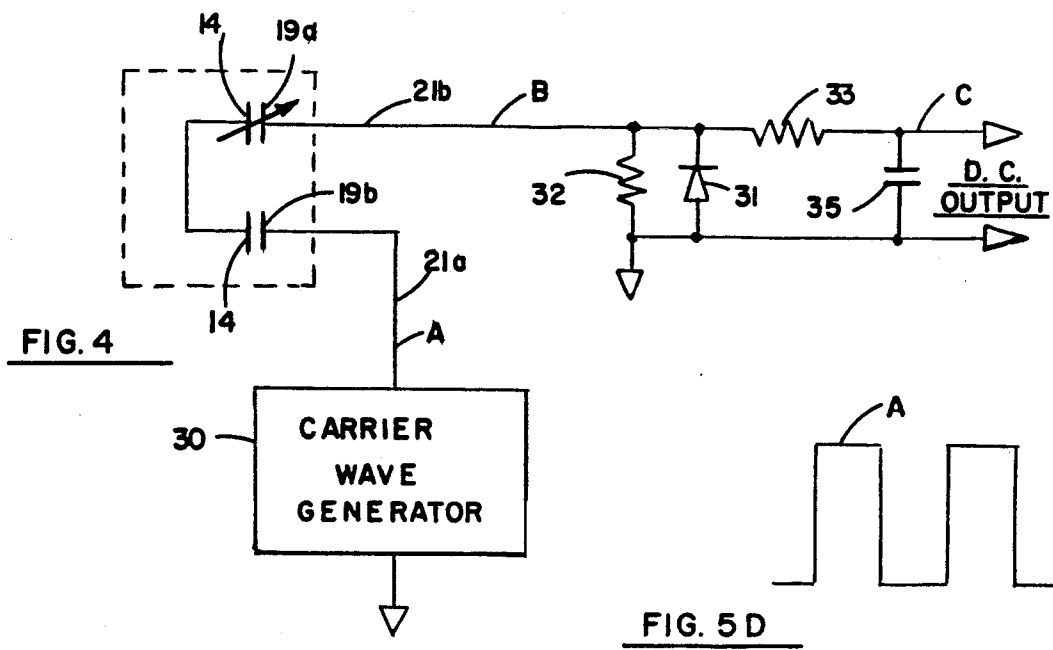


FIG. 3



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