



[54] **DISTRIBUTED INTELLIGENCE VEHICULAR TIRE AIR PRESSURIZATION SYSTEM AND METHOD**

5,309,969 5/1994 Mittal 152/415
5,313,995 5/1994 Schultz 152/416
5,327,346 7/1994 Goodell 364/426.02

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[57] **ABSTRACT**

A vehicular tire air pressurization system having an intelligent controller for macro control is connected to one or more intelligent manifolds for micro control so as to distributively process air pressurization functions, with the controller having non volatile memory which is field programmable and alterable for storing current operating conditions, functions and parameters for communicating desired air pressures to the manifolds each connected to at least one set of tires and each including non volatile memory for storing pressurization parameters used to control inflation and deflation of the sets of tires to the desired pressures subject to the pressurization parameters which are also field programmable and alterable and which are updated after periodic pressure adjustment cycles, so that, the tires are efficiently pressurized and maintained at the desired pressures even during changing performance characteristics.

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[22] Filed: **Mar. 8, 1995**

[51] Int. Cl.⁶ **G01N 11/08**

[52] U.S. Cl. **364/558; 364/506; 364/424.045; 152/415; 152/416; 152/417**

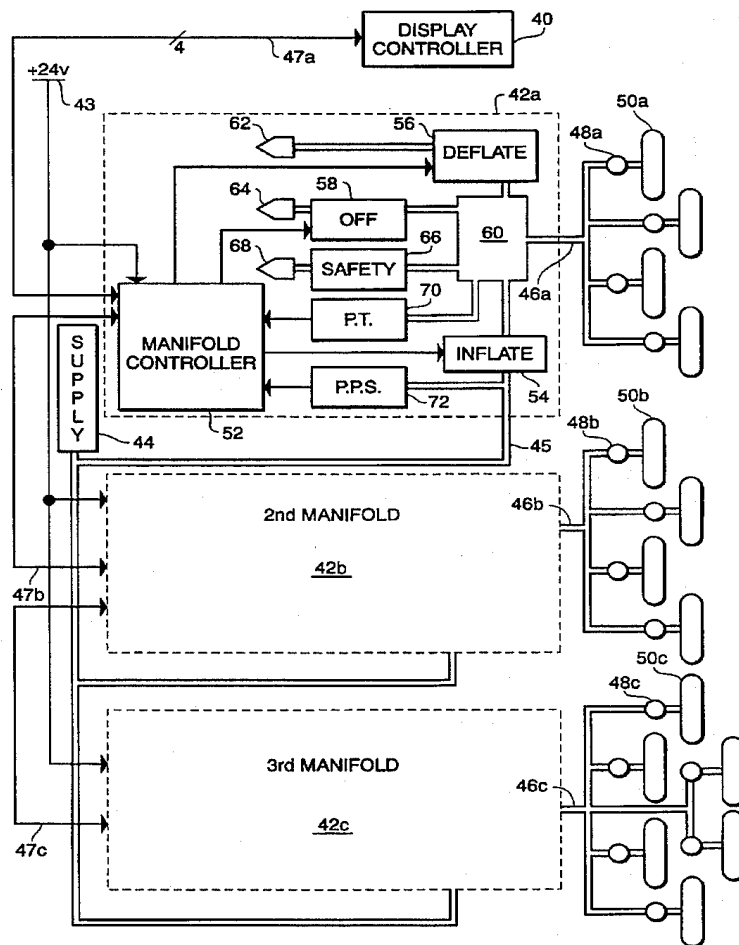
[58] **Field of Search** 364/558, 506, 364/508, 426.02, 424.03, 424.05, 550, 551.01; 152/415-417; 137/224, 224.5, 227-229; 73/146.2-146.5; 141/38, 95, 197; 340/442-444

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,862,938 9/1989 Mittal 152/417

17 Claims, 12 Drawing Sheets



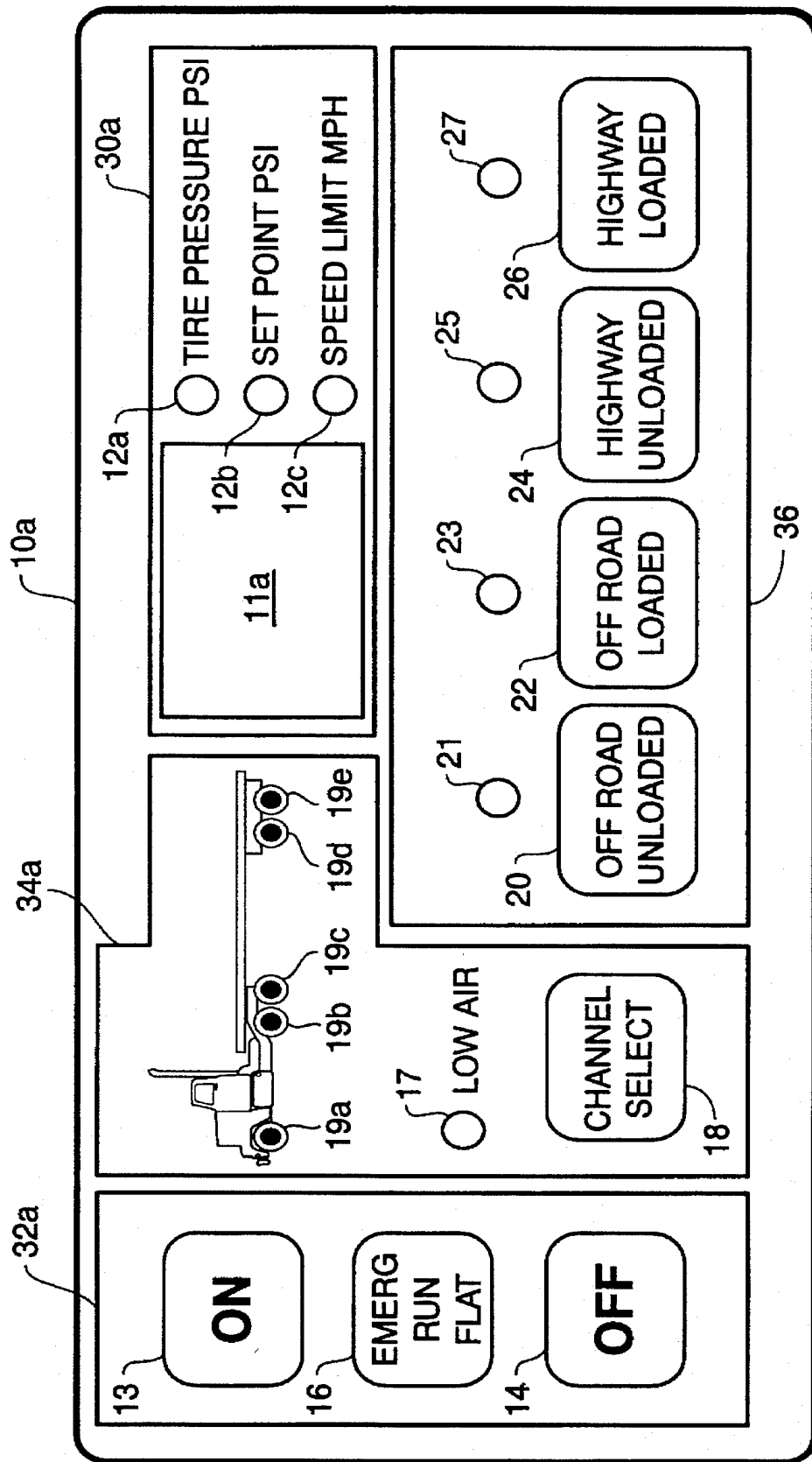


FIG. 1a

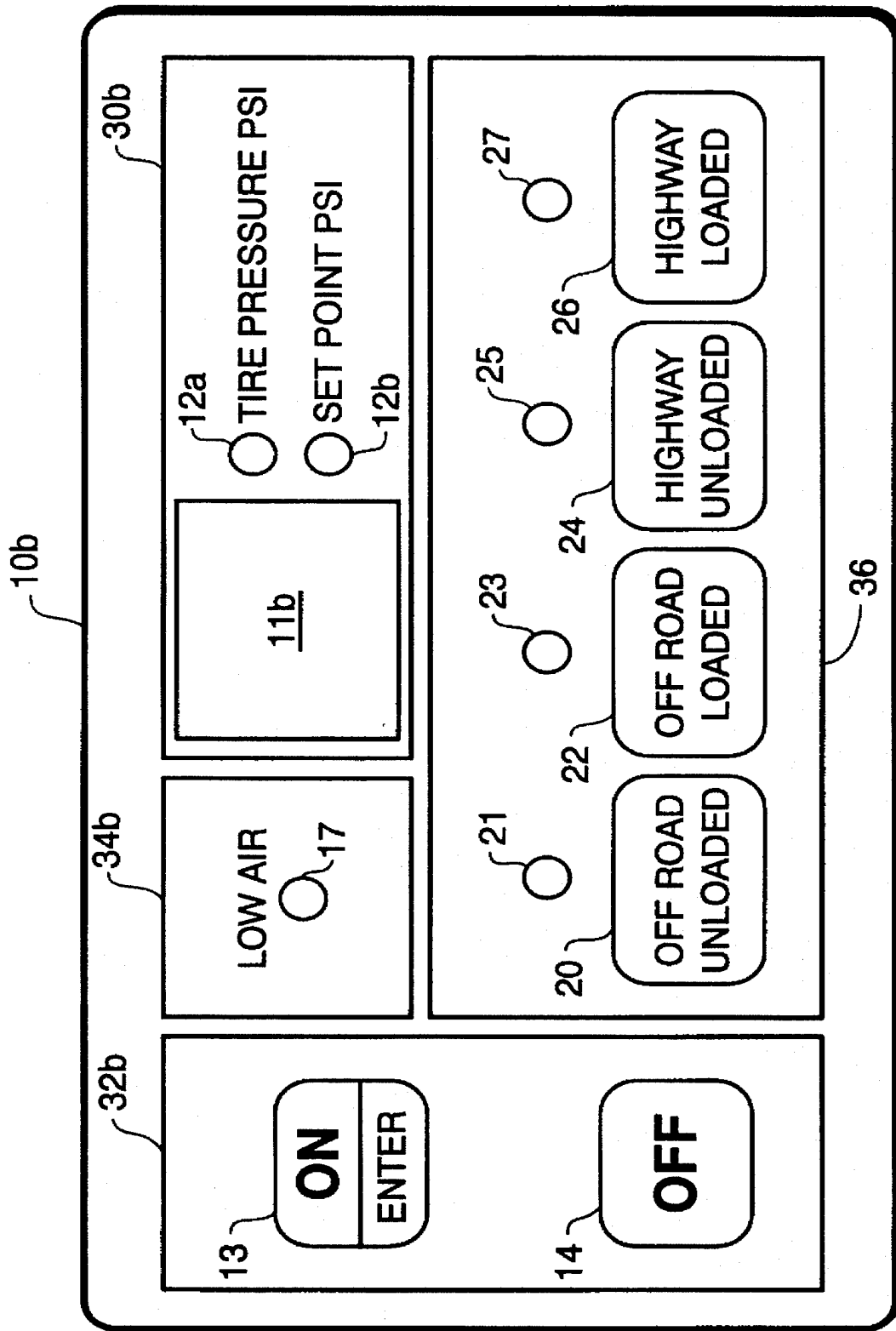


FIG. 1b

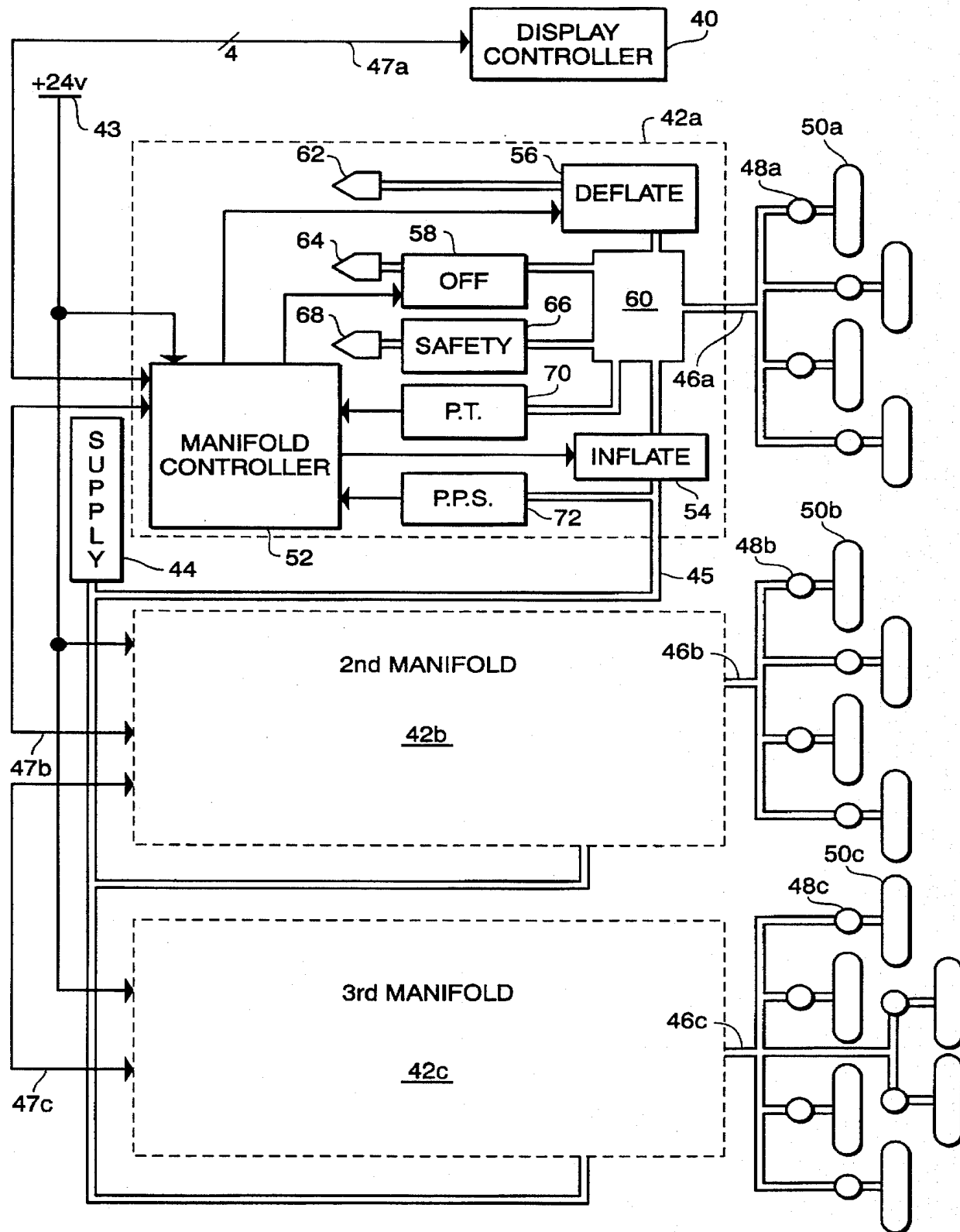


FIG. 2a

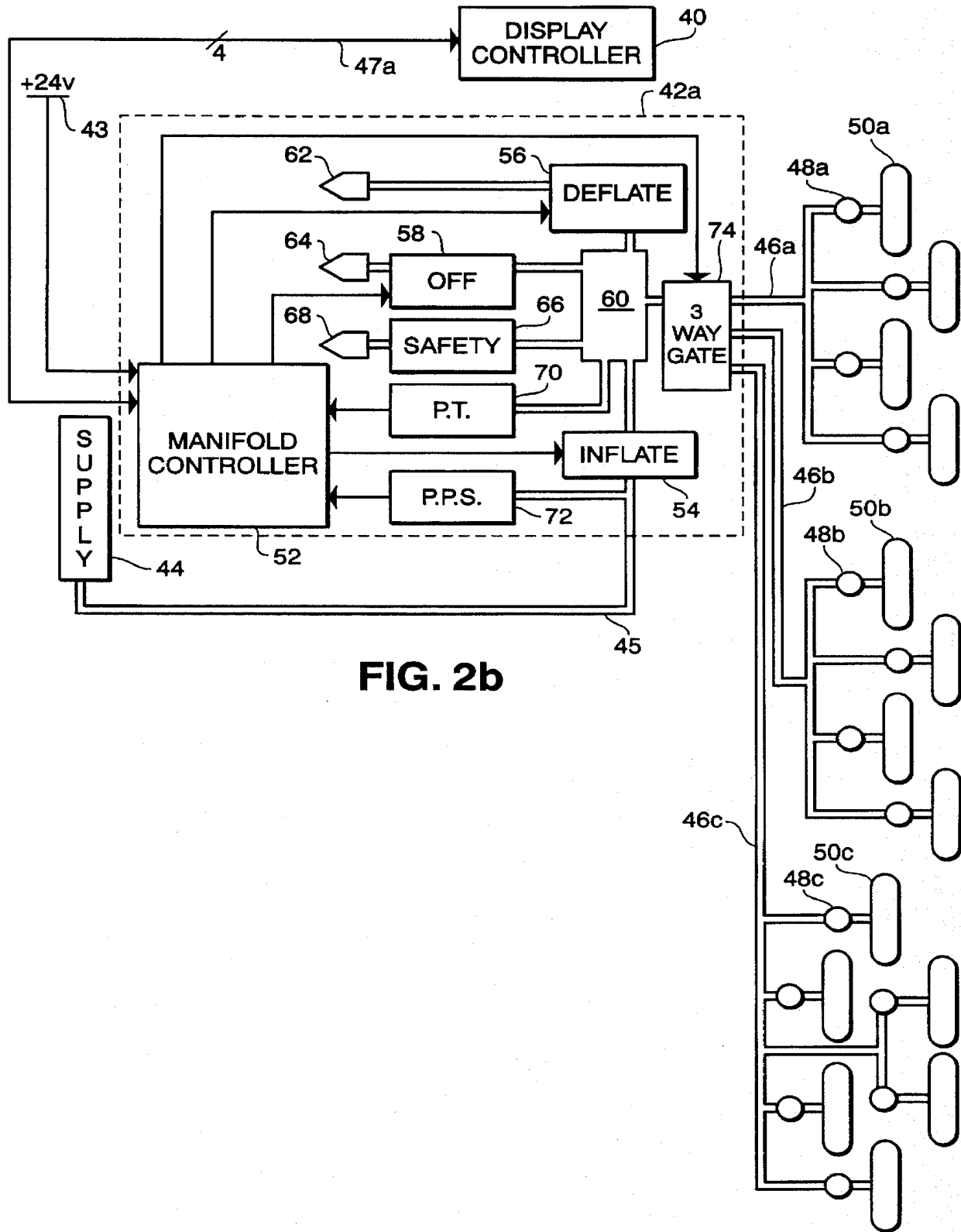


FIG. 2b

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