

[54] **SYSTEM FOR PRECONDITIONING A COMBUSTIBLE VAPOR**

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[57] **ABSTRACT**

A system particularly adapted for use in preconditioning combustible vapors for delivery to internal combustion engines, characterized by a system housing including therein a full-flow bore communicating with a bypass conduit and having a vapor heater arranged therewithin, whereby a combustible vapor selectively is mixed and heated to a predetermined temperature as it is delivered in a continuous flow through the system. A particular feature of the invention resides in a provision of an improved control system having a reduced number of moving parts, and including a provision of fluidic bias ports, for imposing directional control on an established flow of vapor and directing predetermined portions of the flow across a heater, whereby the vapor selectively is preconditioned for enhancing subsequent combustion.

**9 Claims, 5 Drawing Figures**

