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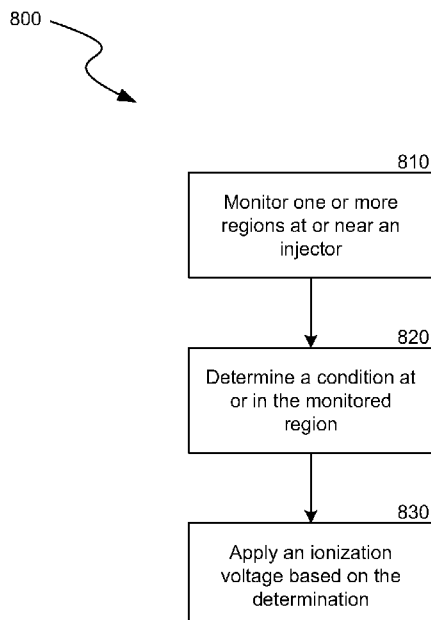
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(54) Title: ADAPTIVE CONTROL SYSTEM FOR FUEL INJECTORS AND IGNITERS

**Fig. 8**

(57) Abstract: The present disclosure is directed to systems and methods for adjusting the operation of a gasoline-fueled engine based on monitored conditions within a combustion chamber of the engine. In some cases, the system monitors regions within the combustion chamber, identifies or determines a satisfactory condition, and applies an ionization voltage to a fuel injector to initiate a combustion event during the satisfactory condition. In some cases, the system monitors the conditions within the combustion chamber, determines a monitored condition is associated with an adjustment, and adjusts a parameters of a combustion event in order to adjust ionization levels within a combustion chamber.



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