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(54) Title: METHOD TO ENHANCE LIGHT LOAD HCCI COMBUSTION CONTROL USING MEASUREMENT OF CYLINDER PRESSURES

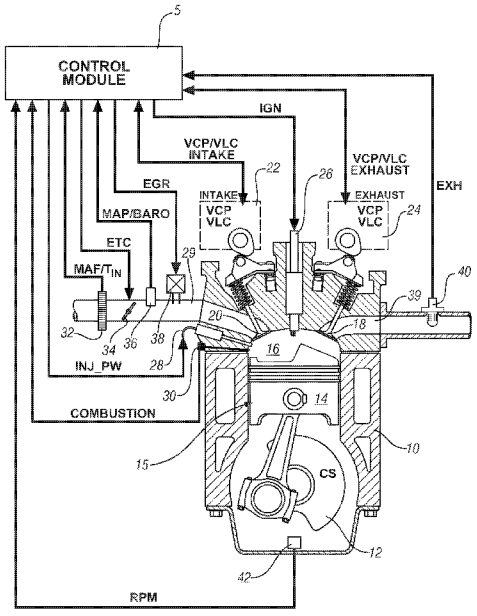


FIG. 1

(57) Abstract: A method for controlling an amount of fuel reforming in an internal combustion engine configured to selectively operate in a homogeneous charge compression- ignition combustion mode with an exhaust recompression strategy includes monitoring in-cylinder pressures during a current combustion cycle, utilizing the monitored in-cylinder pressures to project reforming required in a next combustion cycle, and controlling the next combustion cycle based on the projected reforming required in the next combustion cycle.

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