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(54) Title: REGULATING A HYDROCARBON COMBUSTION PROCESS USING A SET OF DATA INDICATIVE OF HYDROCARBON FUEL CONSUMED CORRESPONDING TO A MONITORED ENGINE OPERATING CHARACTERISTIC

THROTTLE SETTING	HYDROCARBON FUEL CONSUMED	PRODUCT GAS REQUIRED	REACTOR CELLS ACTIVATED
T8	F8	PG8	4
T7	F7	PG7	4
T6	F6	PG6	3
T5	F5	PG5	3
T4	F4	PG4	2
T3	F3	PG3	2
T2	F2	PG2	1
T1	F1	PG1	1
T0	F0	PG0	1

FIG. 1A

(57) Abstract: The Combustion Management System models each hydrocarbon combustion application and supplies a product gas, comprising a dynamic mixture of nascent hydrogen (H) and oxygen (O), to the internal combustion engine to propagate the formation of hydroxide radicals (OH) and thereby to improve the level of completion of the hydrocarbon combustion reaction. The Combustion Management System provides product gas volumetric requirement information; and takes into account the engine style, primary torque requests, and hydrocarbon fuel consumption information to develop an operating system specific application that produces consistent measurable results.