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- (54) **Title:** SYSTEM AND METHOD FOR ALERTING AND SUPPRESSION OF DETONATION AND/OR PRE IGNITION
PHENOMENA IN INTERNAL COMBUSTION ENGINES BY MONITORING RPM FLUCTUATION

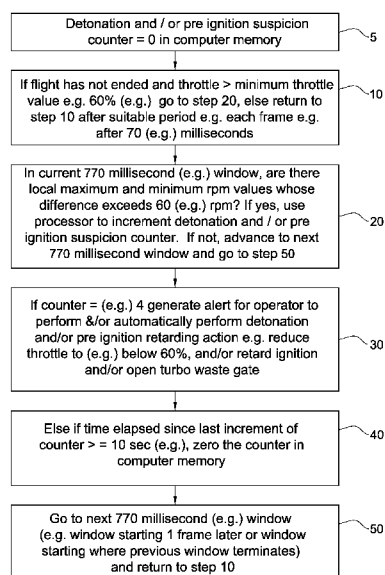


Fig. 1

- (57) **Abstract:** An engine system with advance detection of detonation and / or pre ignition, the system comprising an engine, operative for propulsion of a vehicle by generating rotational motion, whose rotational velocity over time is monitored; and a detonation and / or pre ignition detector operative to provide an alert for impending detonation and / or pre ignition of the engine, if the rotational velocity fluctuates over time to an extent which is predetermined to be unsafe.