

FILTER REGENERATION SYSTEM, ECU, AND FILTER REGENERATION
PROGRAM

ABSTRACT

The present invention proposes a filter regeneration system, an ECU, and a filter regeneration program capable of creating an efficient travel plan for a driver by notifying the driver of an estimated remaining DPF regeneration time. The filter regeneration system for a DPF collecting particulate matter includes: the ECU that controls filter regeneration processing for the DPF. The ECU calculates a remaining soot amount (R_p) at a current time point on the basis of a physical model indicative of an actual remaining soot amount, calculates a remaining soot amount (R_t) at the current time point on the basis of a time model indicative of a theoretical remaining soot amount, calculates an estimated remaining DPF regeneration time (T_p , T_t) at the current time point on the basis of larger one of the remaining soot amounts (R_p , R_t), and notifies the driver of the estimated remaining DPF regeneration time (T_p , T_t).

Fig. 1