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(57) Abstract :

A soot oxidation system for a Diesel Particulate Filter (DPF) 110 comprising: a soot (printex -U carbon) 111 is mixed with a LAMOX material 112 used as soot oxidation catalyst in a ratio 1: 10 wt. ratio and is kept in thermo-gravimetric analyzer operated in air atmosphere at T50 is in the range of 494 to 547 ? whereas uncatalyzed T50 is 600 ?, wherein the LAMOX materials used as soot oxidation catalyst has a pre-exponential factor affecting the exponentiality of the activation energy-average kinetic energy ratio and the soot oxidation T50 temperature is decreased from 600? to 494 to 547 ? that improves the catalytic diesel soot oxidation performance. << FIG. 1B >>

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