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(54) **EXHAUST GAS PURIFICATION DEVICE FOR INTERNAL COMBUSTION ENGINE**

(57) In an internal combustion engine, inside of an engine exhaust passage, a hydrocarbon feed valve (15) and an exhaust purification catalyst (13) are arranged. On the exhaust purification catalyst (13), platinum Pt (51) is carried and a basic layer (53) is formed. At the time of engine operation, a main concentration changing action in which the concentration of hydrocarbons which flow into the exhaust purification catalyst (13) is made to change by a predetermined amplitude (ΔHA) and predetermined period (ΔTA) is performed. Furthermore, before each main concentration changing action, an auxiliary concentration changing action in which the concentration of hydrocarbons is made to change by an amplitude (ΔHB) smaller than the amplitude (ΔHA) at the time of each main concentration changing action is performed.

Fig.10

