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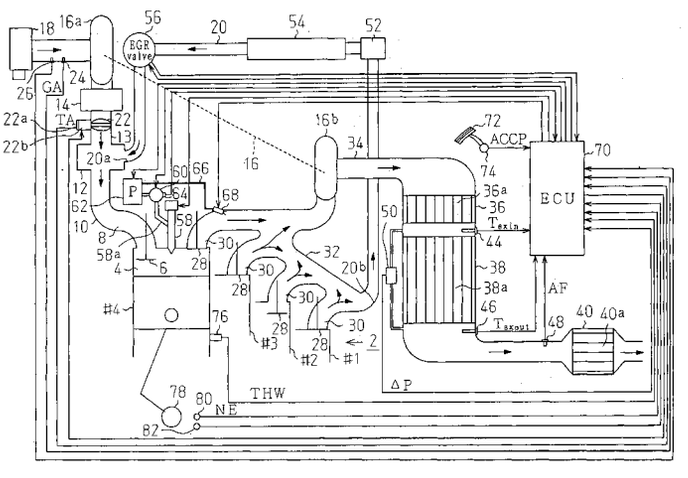
(54) Catalyst deterioration determination apparatus of internal combustion engine

(57) In an internal combustion engine (2), during sulfur release control for permitting an exhaust purification catalyst to recover from a sulfur poisoned state, a richening period, in which fuel is supplied to exhaust gas, and a non richening period, in which no fuel is supplied to exhaust, are repeated. The ratio of the duration of the richening period to the duration of the non-richening period is changed according to the deterioration degree of the exhaust purification catalyst. Thus, even if the deterioration degree of the exhaust purification catalyst changes, an excessive increase in the catalyst bed temperature and a lowered accuracy of the sulfur release control are reliably suppressed.

Fig.1



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F02D
F01N

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	30 May 2005	Pileri, P

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