(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 2 626 528 A8

(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71, 72

(48) Corrigendum issued on:
23.10.2013 Bulletin 2013/43

(43) Date of publication:
14.08.2013 Bulletin 2013/33

(21) Application number: **11857419.3**

(22) Date of filing: **30.11.2011**

(51) Int Cl.:
F01N 3/08 *(2006.01)* ***F01N 3/20*** *(2006.01)*
F01N 3/36 *(2006.01)* ***F02D 41/04*** *(2006.01)*

(86) International application number:
PCT/JP2011/077663

(87) International publication number:
WO 2013/080330 (06.06.2013 Gazette 2013/23)

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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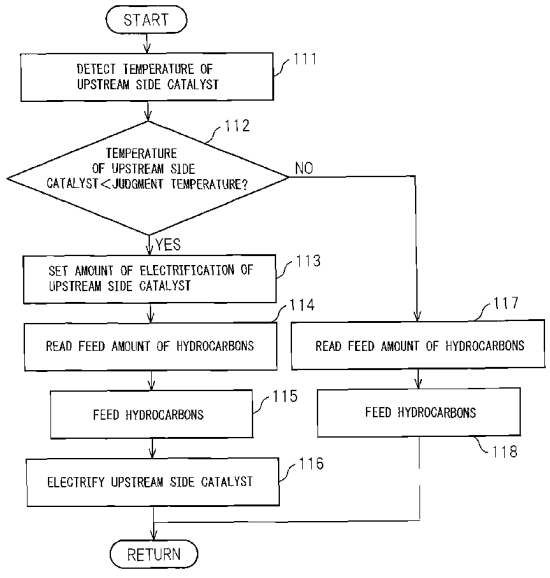
(54) EXHAUST PURIFICATION DEVICE FOR INTERNAL COMBUSTION ENGINE

(57) An exhaust purification system of an internal combustion engine is provided with an exhaust purification catalyst which includes an upstream side catalyst and a downstream side catalyst and which makes NO_x and hydrocarbons react. The upstream side catalyst has an oxidation ability, while the downstream side catalyst carries precious metal catalyst particles on an exhaust flow surface and is formed with basic exhaust flow surface parts. The exhaust purification catalyst makes the concentration of hydrocarbons vibrate by within a predetermined range of amplitude and by within a predetermined range of period so as to remove the NO_X. The upstream side catalyst has a high efficiency temperature at which hydrocarbons can be partially oxidized by a predetermined efficiency. The exhaust purification system controls the temperature of the upstream side catalyst so that the upstream side catalyst becomes less than the high efficiency temperature in the time period of feeding hydrocarbons and the upstream side catalyst becomes a high efficiency temperature or more after feeding the hydrocarbons.

Fig.23



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