

Title (en)

HEATABLE CATALYTIC CONVERTER ARRANGEMENT HAVING A WATER TRAP LOCATED UPSTREAM

Title (de)

BEHEIZBARE KATALYSATORANORDNUNG MIT VORGESCHALTETER WASSERFALLE

Title (fr)

DISPOSITIF CATALYSEUR POUVANT ETRE CHAUFFE POURVU D'UN PIEGE A EAU PLACE EN AMONT

Publication

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Application

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Abstract (en)

[origin: DE19800654A1] The invention relates to an arrangement for purifying an exhaust gas stream of a combustion engine (1). The device contains a first water trap (5), an electrically heatable honeycomb (7) and a honeycomb (8) with a catalytic active coating, said coating promoting oxidation, which are successively arranged in a flow direction (S) of the exhaust gas. The electrically heatable honeycomb (7) and the honeycomb (8) with a catalytic active coating can completely or partially form a component. Such an assembly can be connected as a small supplemental system behind a lambda-probe equipped catalytic converter in order to guarantee exhaust gas purification during the cold-start phase. The supplemental system, with a larger dimension, can assume the entire exhaust gas purification. The dry honeycomb (7) which can be electrically heated by the water trap located upstream quickly reaches the temperature ranging from only 70 to 90 DEG C which is necessary for a catalytic conversion and, in addition, requires less electric energy than conventional systems. The arrangement enables the reduction of pollutants in exhaust gases of motor vehicles to extremely low amounts.

IPC 1-7

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IPC 8 full level

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