



(12) **United States Patent**
Hackländer

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(54) **EXHAUST SYSTEM OF AN INTERNAL COMBUSTION ENGINE**

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(57) **ABSTRACT**

An exhaust system (1) of an internal combustion engine includes an oxidation catalytic converter (2), a particle filter (3), an injector (4) for injecting a reducing agent, a static mixer-evaporator (5), an SCR catalytic converter (6) and a housing (8). The oxidation catalytic converter is upstream of the particle filter and upstream of the SCR catalytic converter. The injector is upstream of the mixer-evaporator and the mixer-evaporator is upstream of the SCR catalytic converter. The housing has a centrally inner channel (9), a ring channel (10) concentrically around the inner channel, an eccentrically outer channel (11), a first deflecting chamber (12) connecting the outer channel with the ring channel and a second deflecting chamber (13) connecting the inner channel with the ring channel. The mixer-evaporator is in the inner channel and the oxidation catalytic converter or particle filter or SCR catalytic converter is ring-shaped and in the ring channel.

(52) **U.S. Cl.**
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See application file for complete search history.

12 Claims, 2 Drawing Sheets

