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(54) CATALYZED SCR FILTER AND EMISSION TREATMENT SYSTEM

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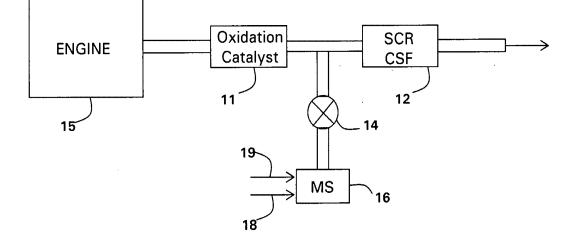
Feb. 10, 2005

(51) Int. Cl.⁷ B01D 53/94 (52) U.S. Cl. 423/239.2; 422/180; 422/177; 422/172; 422/171

(57)ABSTRACT

(43) **Pub. Date:**

Provided is an emission treatment system and method for simultaneously remediating the nitrogen oxides (NOx), particulate matter, and gaseous hydrocarbons present in diesel engine exhaust streams. The emission treatment system has an oxidation catalyst upstream of a soot filter coated with a material effective in the Selective Catalytic Reduction (SCR) of NOx by a reductant, e.g., ammonia. Also provided is a method for disposing an SCR catalyst composition on a wall flow monolith that provides adequate catalyst loading, but does not result in unsuitable back pressures in the exhaust.



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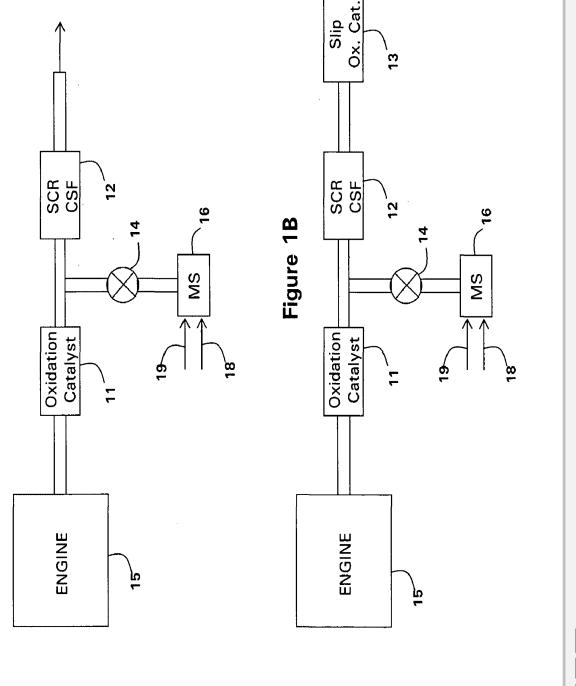


Figure 1A

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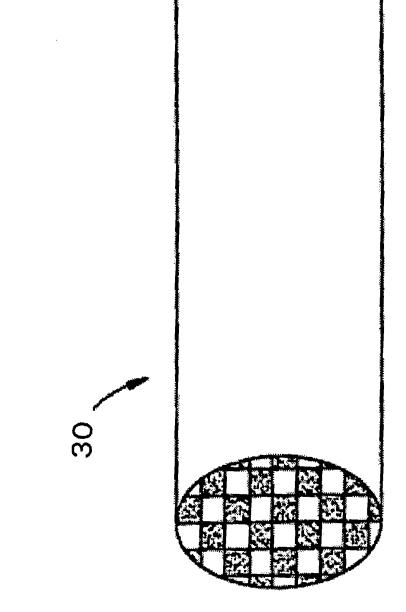


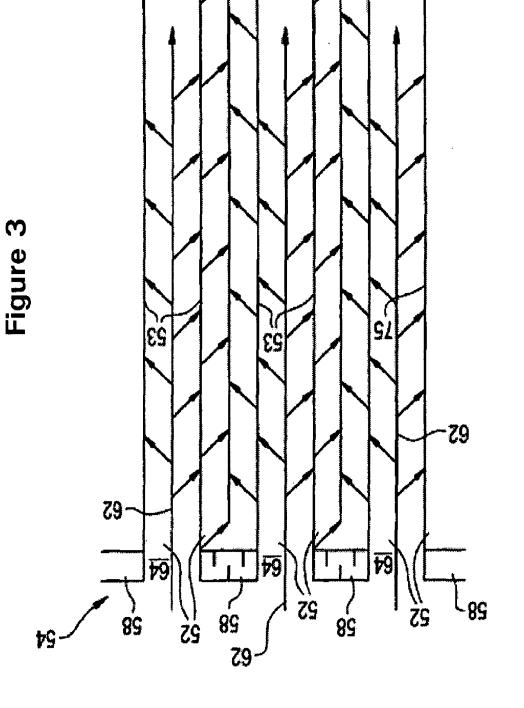
Figure 2

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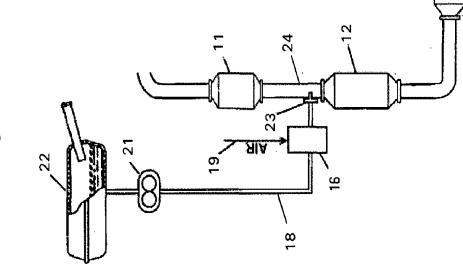


Figure 4



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