

(19) **United States**

(12) **Patent Application Publication**
Patchett et al.

(10) **Pub. No.: US 2005/0031514 A1**
 (43) **Pub. Date: Feb. 10, 2005**

(54) **CATALYZED SCR FILTER AND EMISSION TREATMENT SYSTEM**

Publication Classification

(75) Inventors: **Joseph Allan Patchett**, Basking Ridge, NJ (US); **Joseph Charles Dettling**, Howell, NJ (US); **Elizabeth Alina Przybylski**, Edison, NJ (US)

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

(57) **ABSTRACT**

Correspondence Address:
Chief Patent Counsel
Engelhard Corporation
101 Wood Avenue
P.O. Box 770
Iselin, NJ 08830-0770 (US)

Provided is an emission treatment system and method for simultaneously remediating the nitrogen oxides (NO_x), 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 NO_x 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.

(73) Assignee: **Engelhard Corporation**, Iselin, NJ

(21) Appl. No.: **10/634,659**

(22) Filed: **Aug. 5, 2003**

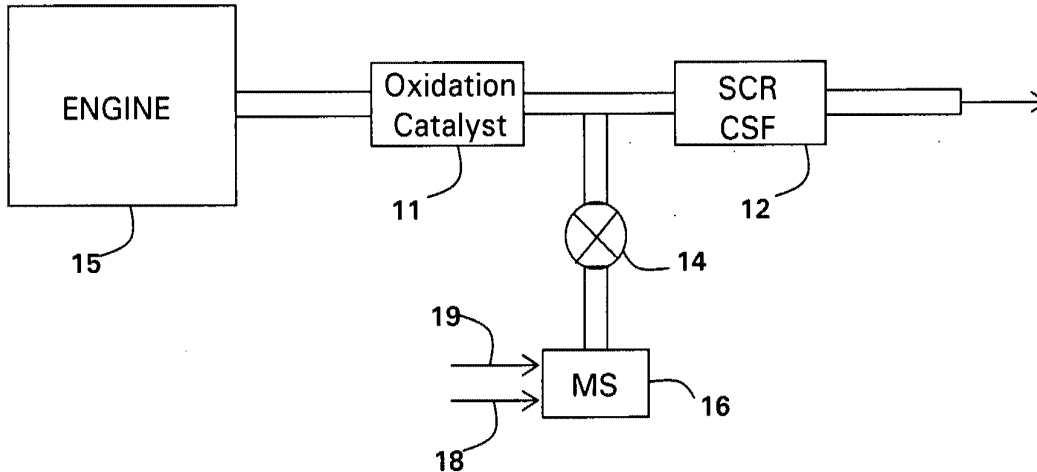


Figure 1A

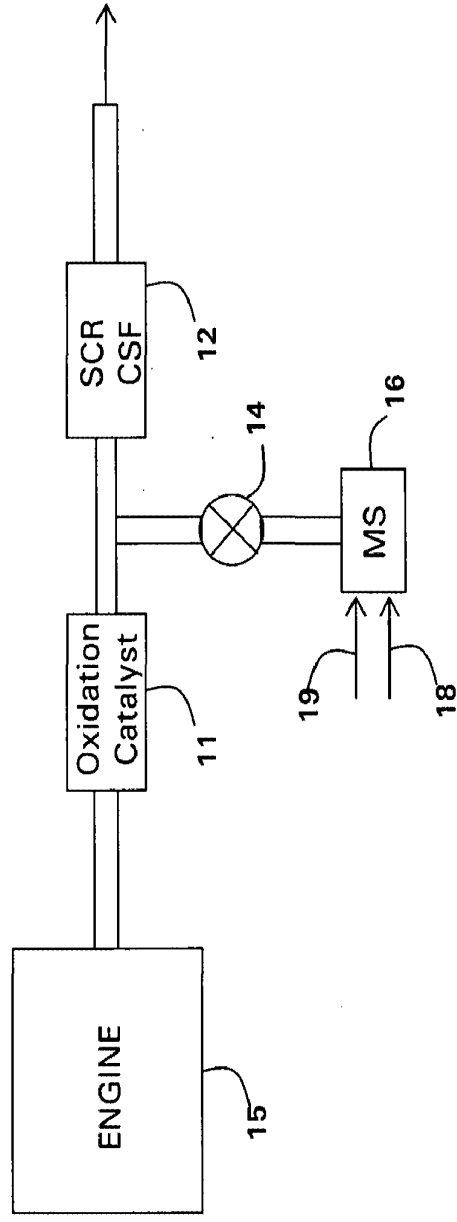


Figure 1B

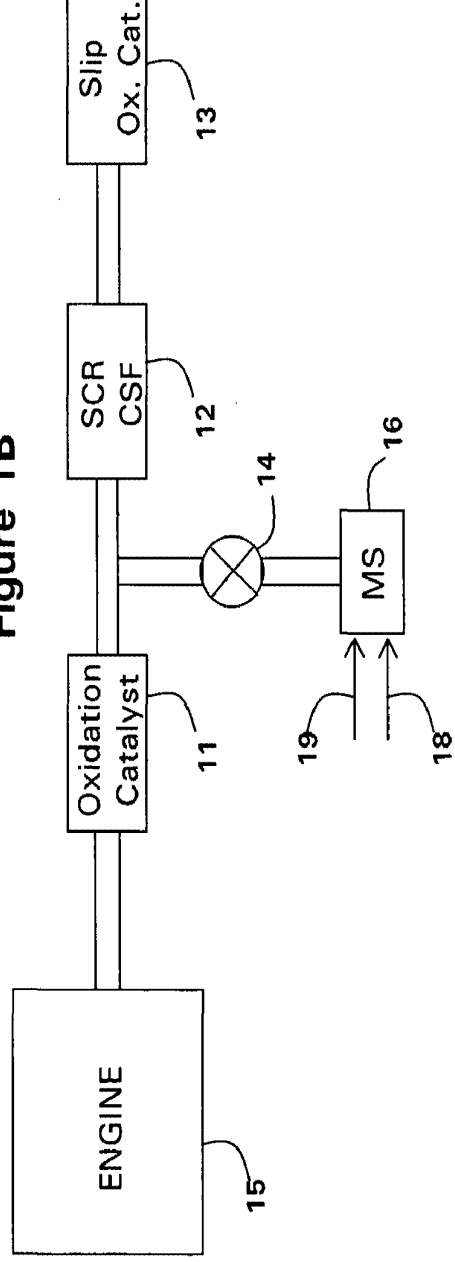


Figure 2

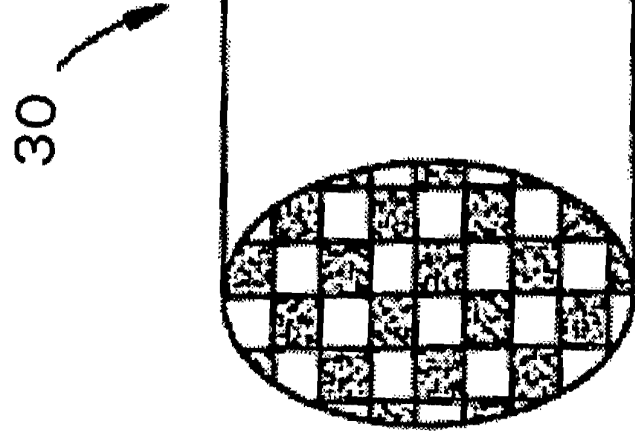


Figure 3

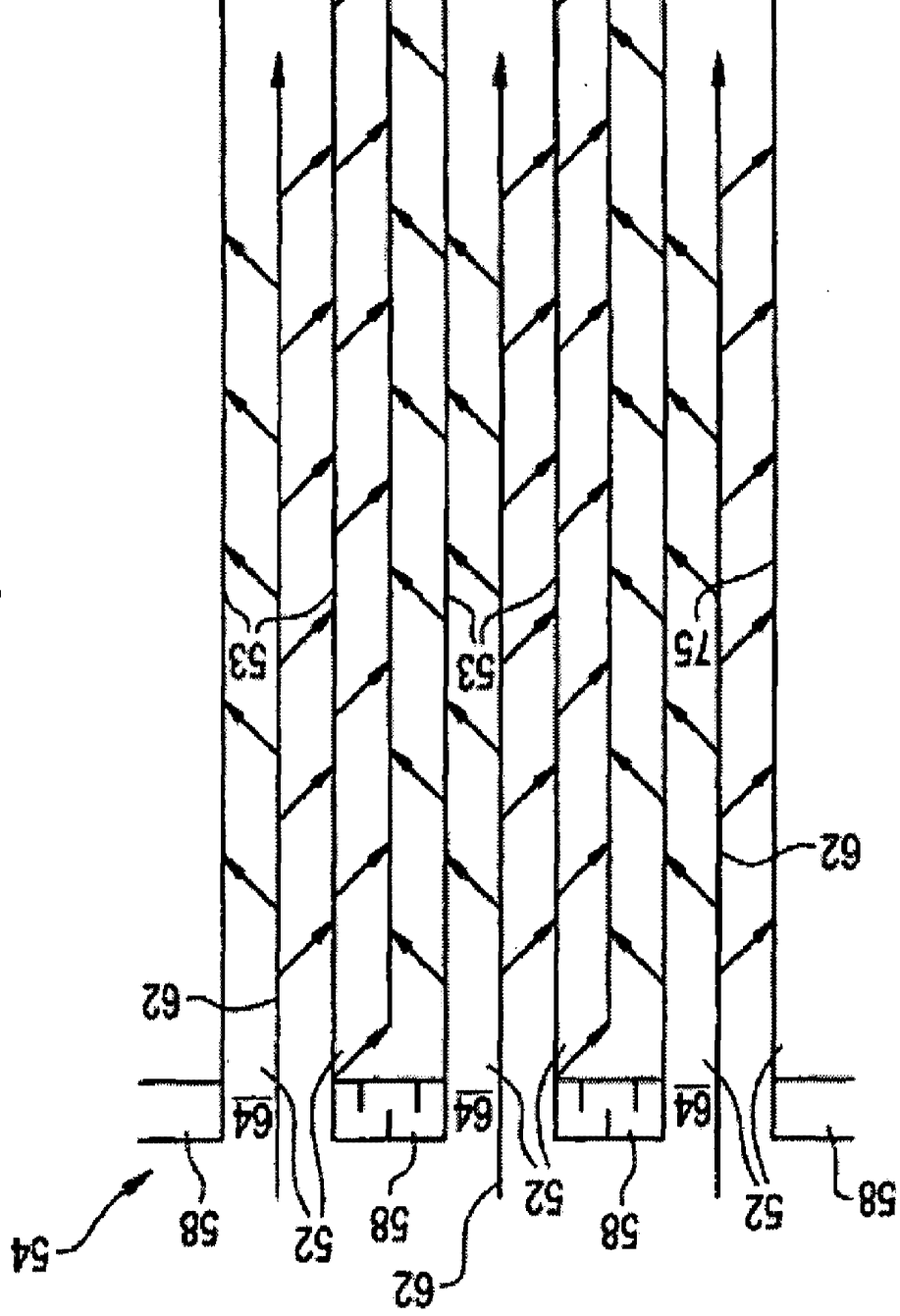
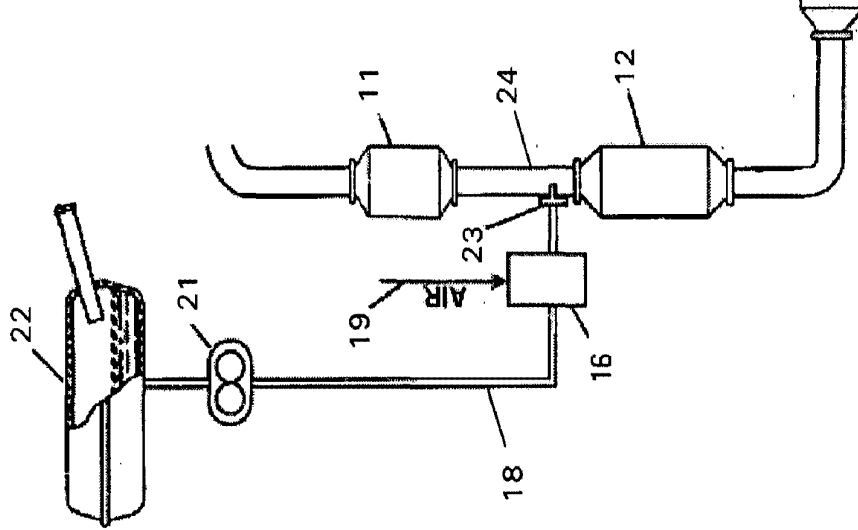


Figure 4



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.