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- (71) **Applicant (for all designated States except US):**
CATERPILLAR INC. [US/US]; 100 N.E. Adams Street,
Peoria, IL 61629-9510 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** UPANO, Raymond [US/US]; 4117 W. Stonewaer Drive, Peoria, IL 61615-8852 (US). ROOZENBOOM, Stephan, D. [US/US]; 609 Yorshire Drive, Washington, IL 61571-1237 (US). PRADHAN, Rajdeep, S. [US/US]; 7021 N. Buckeye Drive, Edwards, IL 61528 (US).
- (74) **Agents:** SHAH, Shital, A. et al.; 100 N.E. Adams Street, Peoria, IL 61629-9510 (US).
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(54) **Title:** EXHAUST SYSTEM HAVING AN AFTERTREATMENT MODULE

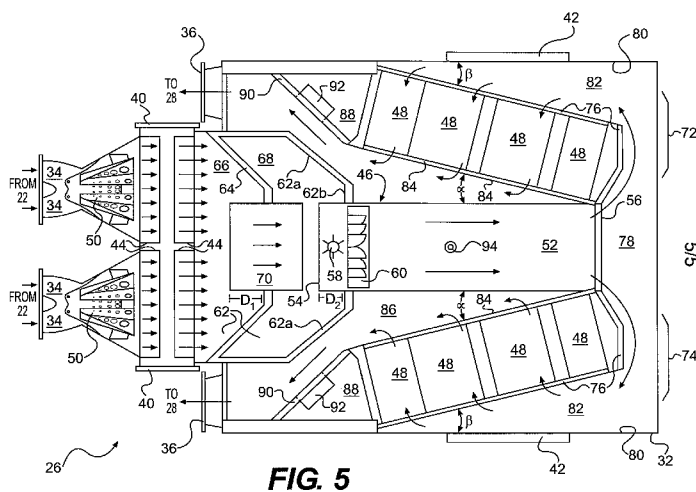


FIG. 5

(57) **Abstract:** An aftertreatment module for use with an engine is disclosed. The aftertreatment module may have a plurality of inlets configured to direct exhaust in a first flow direction into the aftertreatment module. The aftertreatment module may also have a mixing duct configured to receive exhaust from the plurality of inlets, and a branching passage in fluid communication with the mixing duct. The branching passage may be configured to redirect exhaust from the mixing duct into separate flows that exit the aftertreatment module in a second flow direction opposite the first flow direction.

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A. CLASSIFICATION OF SUBJECT MATTER*F01N 3/02(2006.01)i, F01N 13/08(2010.01)i, F01N 3/00(2006.01)i*

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F01N 3/02; F02D 45/00; F01N 3/10; F01N 3/021; F01N 1/00; F01N 9/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: after treatment, mix, duct, passage, bank, diffuser, attenuation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008-0314033 A1 (ANEJA RAKESH et al.) 25 December 2008 See paragraph 41,46,58,59 Fig.7	1-2
A	US 2009-0288394 A1 (KESSE MARY L. et al.) 26 November 2009 See paragraph10, page2, line1-8 Fig.1	1-10
A	US 2007-0289294 A1 (MARCUS WERNI et al.) 20 December 2007 See paragraph 33 Fig.9	1-10
A	US 2008-0093163 A1 (FREDERIKSEN SVEND) 24 April 2008 See paragraph 56,61,69,107 Fig.2a,3,16	1-10

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&" document member of the same patent family

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Authorized officer

LIM, Hyung Gun

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