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(71) Applicant (for all designated States except US): **EXXON-MOBIL RESEARCH AND ENGINEERING COMPANY** [US/US]; 1545 Route 22 East, P.O. Box 900, Annandale, NJ 08801-0900 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GAUGHAN, Roger, Grant** [US/US]; 64 Stratton Lane, Sewell, NJ 08080 (US). **BLAZOWSKI, William, S.** [US/US]; 1107 Egret Court, Forked River, NJ 08731 (US). **LOWREY, Daniel, Dawson** [US/US]; 1908 Shetland Way, Westville, NJ 08093 (US). **BELL, Tommy, Mack** [US/US]; 4702 Gulfway, Baytown, TX 77521 (US).

(74) Agents: **PURWIN, Paul, E.** et al.; ExxonMobil Research and Engineering Company, 1545 Route 22 East, P.O.Box 900, Annandale, NJ 08801-0900 (US).

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(54) Title: IMPROVED LEADED AVIATION GASOLINE

(57) Abstract: Aviation gasolines having an enhanced peak indicated mean effective pressure are provided by admixing with a leaded base aviation gasoline an aromatic amine of the formula  $\text{NH}_2\text{-Ar-(R}^1\text{)}_n$  wherein  $\text{R}^1$  is selected from  $\text{C}_1\text{-C}_{10}$  alkyl, halogen, and mixtures thereof provided that when  $\text{R}^1$  is alkyl it occupies the meta- or para-positions on the aromatic ring, Ar is a phenyl aromatic group and n is an integer from 0 to 3 to provide an aviation gasoline having a peak indicated mean effective pressure as determined by ASTM D-909 of greater than about 200 psi.



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**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US05/12624

A. CLASSIFICATION OF SUBJECT MATTER  
IPC: **C10L 1/22( 2006.01),1/223( 2006.01)**

USPC: 44/426  
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 44/426

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2,434,650 A (HERBST) 20 January 1948 (20.01.1948), see entire document.	1-17
A	US 2,819,953 A (BROWN et al) 14 January 1958 (14.01.1958), see entire document.	1-17

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

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

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Name and mailing address of the ISA/US: Mail Stop PCT, Attn: ISA/US, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, Facsimile No. (571) 273-3201  
Authorized officer: Cephia D. Toomer, Telephone No. 571-272-1700  
DEBORAH A. THOMAS, PARALEGAL SPECIALIST