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(71) Applicant (for all designated States except US): **MEAD-WESTVACO CORPORATION** [US/US]; 11013 West Broad Street, Glen Allen, VA 23060 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **TSCHANTZ, Michael F.** [US/US]; 204 Paxton Street, Lexington, VA 24450 (US).

(74) Agent: **MCDANIEL, Terry B.**; MeadWestvaco Corporation, Centennial Campus, 1021 Main Campus Drive Floor 3, Raleigh, NC 27606, (US).

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**Declaration under Rule 4.17:**

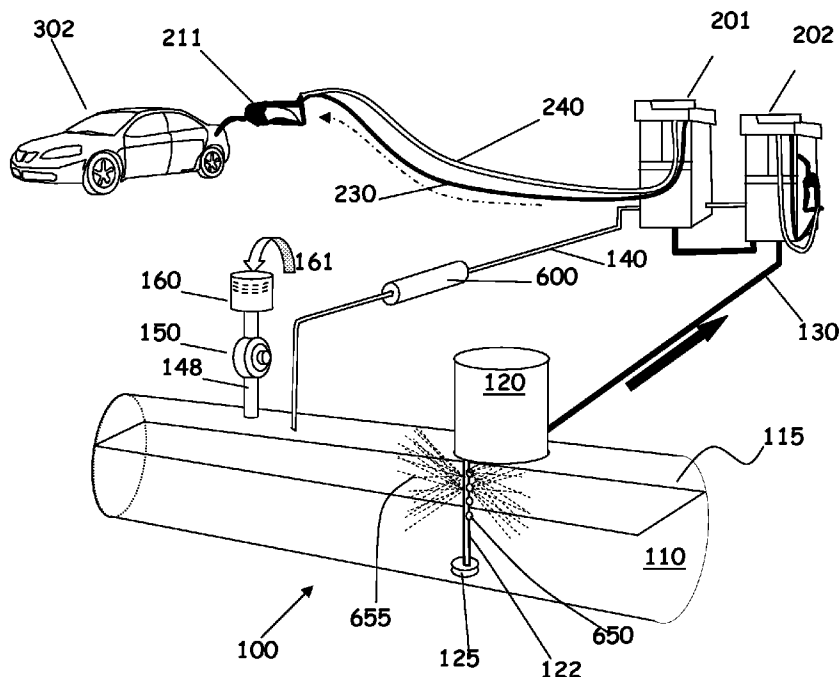
— of inventorship (Rule 4.17(iv))

**Published:**

— with international search report

[Continued on next page]

(54) Title: CONTROL OF VAPOR EMISSIONS FROM GASOLINE STATIONS



(57) Abstract: The present invention relates to a vapor recovery system for gas station that is capable of controlling vapor emission to less than 0.38 lbs/1000 gallons fuel dispensed. The system may include at least one canister containing adsorbents such as activated carbon, zeolite, activated alumina, silica, and other adsorbents for passive removal of hydrocarbon vapors in venting air. Additionally, the system may include a means to enhance vapor-liquid equilibrium in the ullage of the fuel tank and accordingly minimize vapor emission level.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/65856

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B01D 46/46 (2007.01)

USPC - 95/11

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)

USPC - 95/11

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

USPC - 95/11; 95/146, 95/21, 95/90, 96/121, 96/122, 96/130 - see keywords below;

Google Patent Internet - see keywords below

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

GOOGLE SCHOLAR, GOOGLE PATENT and WEST (PGPB,USPT,EPAB,JPAB): vapor emissions, vapor recovery, tank, adsorbent, zeolite, peat, carbon, activated carbon, canister, ullage, return line, dispenser, gas station, pellet, pelletized.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,763,856 B2 (Healy, J.) 20 July 2004 (20.07.2004), col 4, ln 40 - col 5, ln 24, col 6, ln 1-37, col 6, ln 41-56, col 7, ln 58 - col 8, ln 11	14-22, 24 and 25
Y		1-13, 23, 26 and 27
Y	US 5,305,807 A (Healy, J.) 26 April 1994 (26.04.1994), Abstract, col 1, ln 21-27, col 3, ln 66 - col 4, ln 9, col 4, ln 45-68, col 6, ln 15-29,	1-13
Y	US 6,478,849 B1 (Taylor et al.) 12 November 2002 (12.11.2002), claim 30.	23, 26 and 27
Y	US 2005/0061301 A1 (Meiller et al.) 24 March 2005 (24.03.2005), Figures 3B and 3C, para [0008], para [0018].	10 and 11
Y	US 6,540,815 B1 (Hiltzik et al.) 01 April 2003 (01.04.2003), col 4, ln 3-25, col 5, ln 50 - col 6, ln 14, col 8, ln 30-68.	6-9
A	US 3,881,894 A (Onufer, G.) 06 May 1975 (06.05.1975), col 5, ln 58 - col 6, ln 23 and col 10, ln 66 - col 11, ln 18.	1-27

☐ Further documents are listed in the continuation of Box C.


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"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

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"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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Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300  
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