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(54) Title: METHOD FOR DESTRUCTION OF ORGANIC COMPOUNDS BY CO-OXIDATION WITH ACTIVATED CARBON

(57) Abstract: A method for oxidizing carbon adsorbable organic compounds in a controlled manner within a bed of activated carbon. The bed of activated carbon is exposed to a source of molecular oxygen, such as air, and is controlled within a temperature range whereby the molecular oxygen is slowly oxidizing the activated carbon. Under this controlled set of conditions, the activated carbon will oxidize organic compounds present within the bed of activated carbon. This technique has widespread versatility for the controlled destruction of organic vapors and liquids by activated carbon and applications for the regeneration of spent activated carbons containing previously adsorbed organic compounds.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/13516

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07C 33/18, 33/34, 39/00, 39/02, 39/04, 37/00

US CL : 568/715, 716, 800

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. : 568/715, 716, 800

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)
STN text

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3,949,056 A (NAKSHBENDI et al.) 6 April 1976 (06.04.1976), entire patent.	1-30
Y	US 5,904,832 A (CLIFFORD et al.) 18 May 1999 (18.05.1999), entire patent.	1-30
Y	US 5,702,587 A (CLIFFORD et al.) 30 December 1997 (30.12.1997), entire patent.	1-30
A	US 4,036,750 A (JAROS et al.) 19 July 1977 (19.07.1997), entire patent.	1-30

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

☐ See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

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