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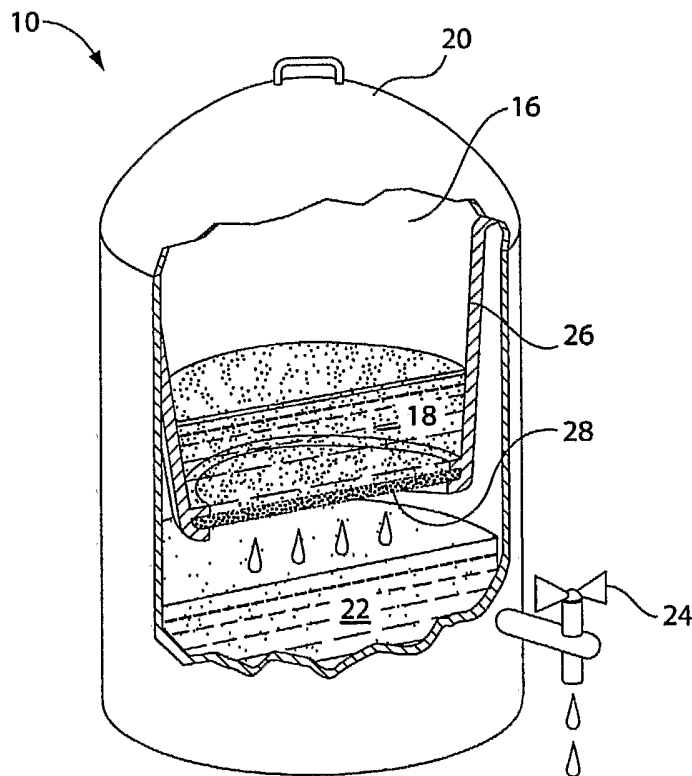
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[Continued on next page]

(54) Title: BACTERIA DEACTIVATION METHOD AND APPARATUS



(57) Abstract: A bacteria deactivation device that has a porous medium through which water and bacteria contained in the water, like e.coli and fecal coliform, are passed. Colloidal silver within the medium deactivates bacteria that pass therethrough. The medium has a porosity up to 80% and pores sized to provide flow rates up to 8 liters per hour while meeting Environmental Protection Agency limits for human consumption of silver.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/43950

A. CLASSIFICATION OF SUBJECT MATTER

IPC: C02F 1/50(2006.01)

USPC: 210/764

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. : 210/764, 668, 198.1, 205, 209, 266, 282, 284, 290, 501; 422/ 28; 424/618

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.
Y	US 6,537,939 B1 (HARVEY) 25 March 2003, col. 3 line 10 through col. 7 line 18, and col. 9 line 11 through col. 12 line 9	1-24
Y	US 6,712,974 B1 (PALM et al.) 30 March 2004, col. 15 lines 6-50	13,24
Y	US 3,327,859 A (PALL) 27 June 1967, col. 7 lines 5-46	13,24
A	US A 4,678,571 A (HOSAKA et al.) 07 July 1987	
A	US 5,149,437 A (WILKINSON et al.) 22 September 1992	

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

☐ See patent family annex.

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

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