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(71) Applicant: **AQUA-AEROBIC SYSTEMS, INC.**
[US/US]; 6306 North Alpine Road, Loves Park, IL
61111-4396 (US).

(72) Inventor: **REID, Terence, K.**; 25 Fernridge Drive, Rock-
ton, IL 61072 (US).

(74) Agent: **VITALE, Robert, A.**; Niro, Scavone, Haller &
Niro, 181 W. Madison, Suite 4600, Chicago, IL 60602
(US).

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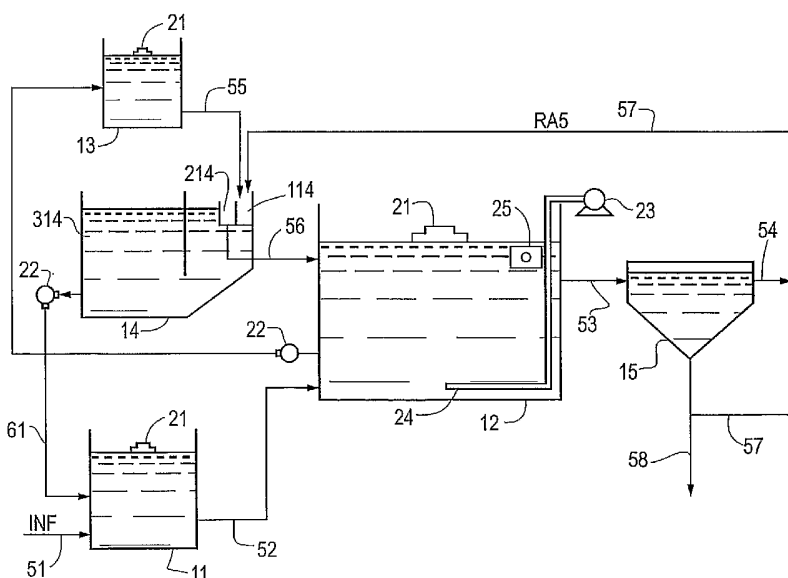
- *as to applicant's entitlement to apply for and be granted a
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- *as to the applicant's entitlement to claim the priority of the
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- *with international search report*
- *before the expiration of the time limit for amending the
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(54) Title: PHASED ACTIVATED SLUDGE SYSTEM



(57) Abstract: The inventions describe a phased activated sludge treatment system that incorporates elements of batch treatment technology into a flow-through treatment process. Control of mixing (21) and aeration (24) systems are independent to facilitate the operation of the main reactor vessel (12) in alternating aerated and anoxic conditions. Conditioning vessels (11, 13, 14) in communication with the main reactor (12) are employed to preferentially control the distribution and balance of nitrogen and phosphorus compounds in the reactor and to remove such biological nutrients concurrently with BOD and TSS in the wastewater. The inventions provide the beneficial results of providing greater operator control of flow-through treatment processes, power saving and reduced operation and maintenance costs in comparison to conventional flow-through treatment technologies.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/30022

A. CLASSIFICATION OF SUBJECT MATTER

IPC: C02F 3/30(2006.01)

USPC: 210/605,622,623,629,220,259,903,906

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. : 210/605, 622, 623, 629, 220, 259, 903, 906, 620, 621, 221.1, 252

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	JP 11-216492 A (TORAY IND INC) 10 August 1999 (10.08.1999), Fig. 3. Abstract.	1, 6
A	JP 2-284695 A (FUJII) 22 November 1990 (22.11.1990), Fig. 1, Abstract.	1, 6
A	JP 11-19684 A (EDA) 26 January 1999 (26.01.1999), Figure 1.	1, 6

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

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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

Fred Prince

Telephone No. (571) 272-0987