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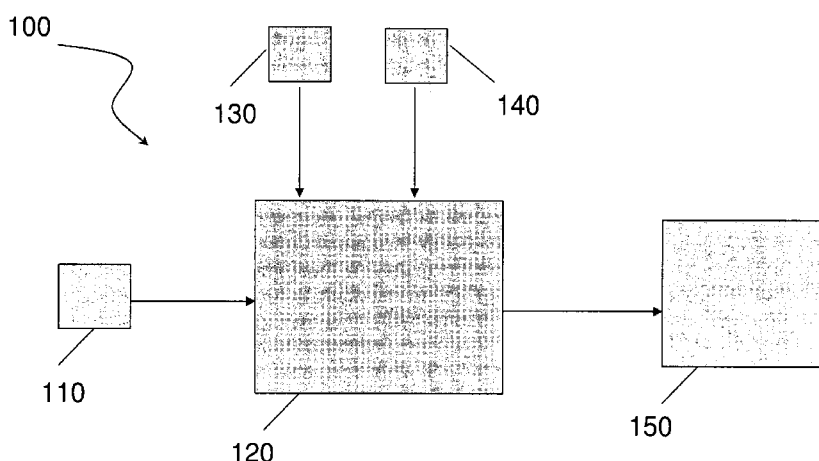


FIG. 1

(57) Abstract: Systems and methods for wastewater treatment. A nitrate source may be dosed to a collection tank, such as a wet well, for downstream control of hydrogen sulfide levels in the wastewater. A source of a strong oxidizer may also be dosed to the wet well. The oxidizer, such as chlorite, may temporarily interrupt denitrification processes in the wet well to prevent floatation of undesirable constituents therein. The oxidizer dosage may be generally consistent with the nitrate dosage. An ORP sensor may facilitate regulation of dosing. The nitrate and the oxidizer may be present in a single mixture to be dosed to the wet well.

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## INTERNATIONAL SEARCH REPORT

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - C02F 3/00 (2009.01) USPC - 210/608, 610, 631 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) US: 210/608, 610, 631  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched IPC: C02F 3/00 (2009.01)  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (PGPB, USPT, USOC, EPAB, JPAB); GOOGLE Scholar; GOOGLE Patents for wastewater, matheis, ward, middleton, harshman, timothy, julie, winsel, james, nitrate, oxid\$, controller, fat, oil, grease, chlorite, calcium, sodium, denitri\$, reduction, potential, float\$, prevent\$, inhibit\$, ORP.		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,309,597 B1 (BALLINGER, Jr. et al.) 30 October 2001 (30.10.2001); col 5-9, 11, 13.	1-24
Y	US 2006/0131245 A1 (DENNIS, II et al.) 22 June 2006 (22.06.2006); para [0028], [0033], [0034], [0036], [0039], [0041].	1-11, 18-20
Y	US 6,652,758 B2 (KRULIK) 25 November 2003 (25.11.2003); col 5, ln 41-43.	4, 24
Y	US 6,235,196 B1 (ZHOU et al.) 22 May 2001 (22.05.2001); col 7, ln 54-58.	6
Y	US 4,461,708 A (HAKULINEN et al.) 24 July 1984 (24.07.1984); col 1, ln 27-39.	12-24
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
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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:  Lee W. Young  PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774