

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
16 February 2006 (16.02.2006)

PCT

(10) International Publication Number  
WO 2006/017561 A3

(51) International Patent Classification:  
A22C 25/00 (2006.01)

KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/US2005/027537

(22) International Filing Date: 1 August 2005 (01.08.2005)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/912,608 5 August 2004 (05.08.2004) US

(71) Applicant and

Published:

(72) Inventor: VAGO, Robert [US/US]; 1196 Mallard Marsh Drive, Osprey, FL 34229 (US).

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

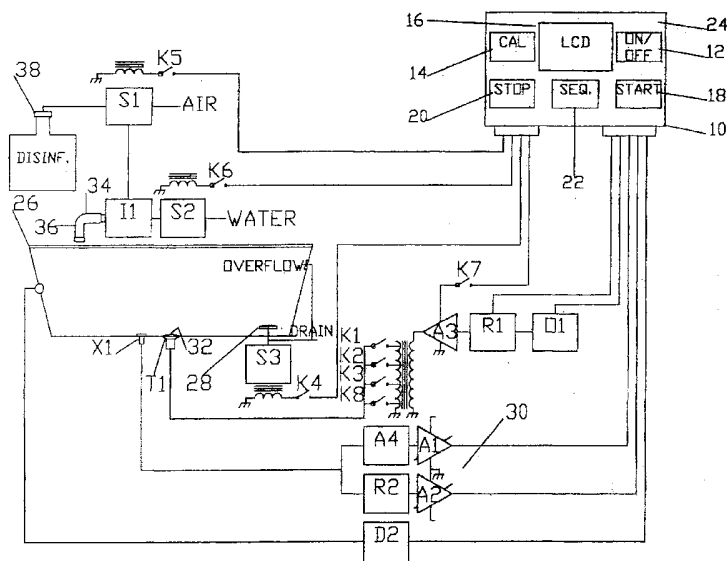
(74) Agent: SUDOL, Neil, R.; Coleman Sudol Sapone, P.C., 714 Colorado Avenue, Bridgeport, CT 06605-1601 (US).

(88) Date of publication of the international search report:  
5 October 2006

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DEVICE FOR SUBAQUEOUS ULTRASONIC CATASTROPHIC IRRADIATION OF LIVING TISSUE



(57) Abstract: A fish killing and fish tissue sanitizing apparatus includes a tank (48), a water feed pipe extending to the tank (48), and an electromechanical transducer (66) in pressure-wave transmitting relationship to the tank (48) for generating ultrasonic pressure waves in water contained in the tank. An electrical signal generator is operatively connected to the transducer (66) for energizing same with an alternating electrical signal. A sensor is in operative contact with water contained in the tank (48) for detecting transient and inertial cavitation occurring within the water in the tank (48).

WO 2006/017561 A3

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/27537

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: **A22C 25/00**( 2006.01)

USPC: 452/149  
 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. : Please See Continuation Sheet

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	US 6,382,134 A (GRUENBERG et al) 07 May 2002 See the entire document.	none

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search: 06 July 2006 (06.07.2006)  
 Date of mailing of the international search report: 15 AUG 2006

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:  
 Thomas Price  
 Telephone No. 571 272-3600

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US05/27537

Continuation of B. FIELDS SEARCHED Item 1:  
452/149 174  
119/201 215 230 231