

#### US005324398A

## United States Patent [19]

[64] CARACTETUE DISCULANCE CONTROL

### Erickson et al.

[56]

Patent Number: [11]

5,324,398

Date of Patent:

Jun. 28, 1994

[34]	CIRCUIT FOR USE WITH ELECTROLYTIC FLUID TREATMENT SYSTEMS	
[75]	Inventors:	Robert K. Erickson, Belmont; Francois X. Prinz, San Jose, both of Calif.
[73]	Assignee:	Water Regeneration Systems, Inc., Belmont, Calif.
[21]	Appl. No.:	901,411
[22]	Filed:	Jun. 19, 1992
[52]	U.S. Cl 204/228	
[58]	Field of Sea	urch 204/149, 152, 228, 305, 204/400, 406, 412

References Cited

U.S. PATENT DOCUMENTS

3,519,550 7/1970 Winslow et al. ...... 204/305 3,532,614 10/1970 Shirley ...... 204/191

3,679,556 9/1968 Doevenspeck ...... 204/269

3,865,710 2/1975 Phipps ...... 204/228

4,119,520 10/1978 Paschakarnis et al. ...... 204/276

4,382,231 5/1983 Miller ...... 324/439

4,400,253 8/1983 Prestridge et al. ...... 204/186

4,629,992 12/1986 Nudelmont ....... 324/464

4,917,782	4/1990	Davies 204/152		
4,937,557	6/1990	Tucci et al 340/603		
4,986,906	1/1991	Dadisman 204/169		
5,055,170	10/1991	Saito 204/228		
5,057,212	10/1991	Burrows 210/85		
5,062,940	11/1991	Davies 204/228		
FOREIGN PATENT DOCUMENTS				

4,839,002 6/1989 Pernick et al. ...... 204/58

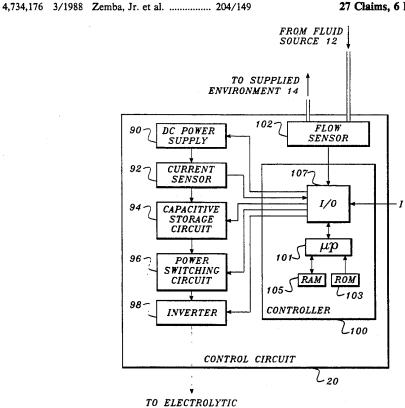
0329562 8/1989 European Pat. Off. . 203896 11/1983 Fed. Rep. of Germany .

Primary Examiner-John Niebling Assistant Examiner—Arun S. Phasge Attorney, Agent, or Firm-Christensen, O'Connor, Johnson & Kindness

#### **ABSTRACT**

An electrolytic filter system (16) is disclosed for use in treating fluid provided by a fluid source (12) to a supplied environment (14). The system includes an electrolytic cell (18), whose operation is governed by a control circuit (20) to allow a desired average current to be applied to the cell substantially independent of variations in fluid resistivity, to allow the cell to simultaneously achieve, for example, the desired removal of contaminants, killing of biological materials, and alteration of the fluid's chemical characteristics, and to provide relatively high levels of energy to the fluid quickly and efficiently.

## 27 Claims, 6 Drawing Sheets



CELL 18



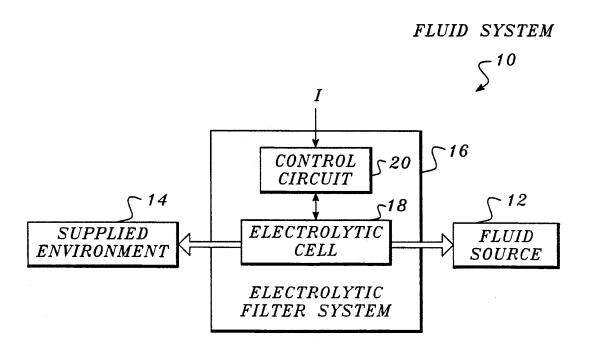
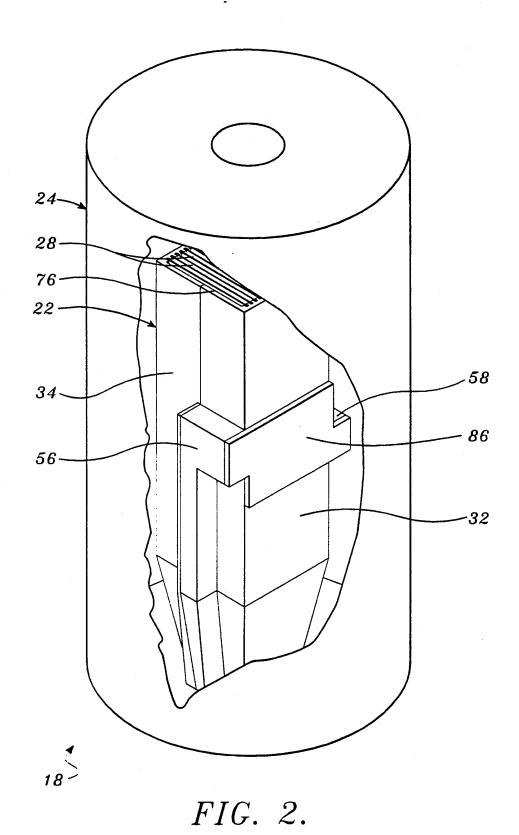


FIG. 1.



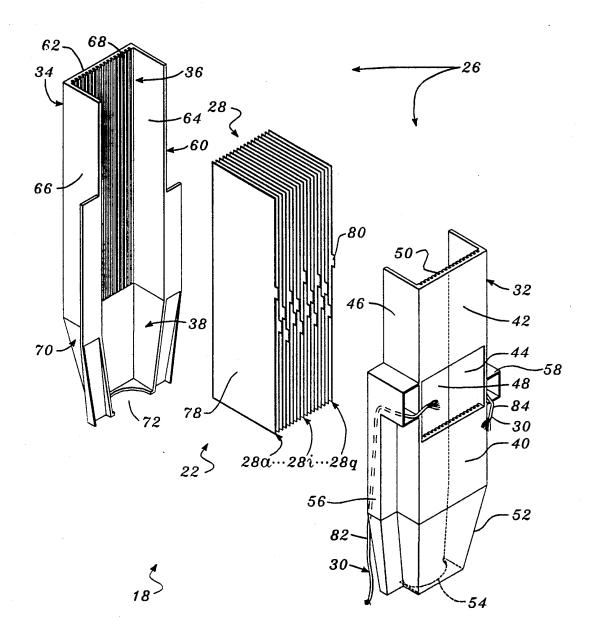
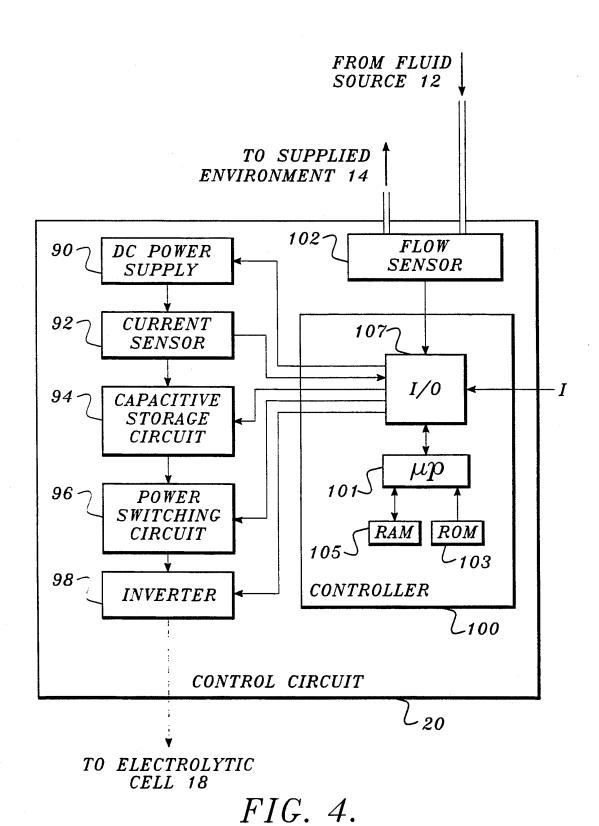


FIG. 3.







# DOCKET A L A R M

## Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

### **LAW FIRMS**

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

### **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

## **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

