



US006171469B1

(12) **United States Patent**  
**Hough et al.**

(10) **Patent No.:** **US 6,171,469 B1**  
(45) **Date of Patent:** **\*Jan. 9, 2001**

(54) **METHOD AND APPARATUS FOR INCREASING THE OXYGEN CONTENT OF WATER**

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(\* ) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

(21) Appl. No.: **08/744,706**

(22) Filed: **Oct. 31, 1996**

(51) **Int. Cl.**<sup>7</sup> ..... **C02F 1/461**

(52) **U.S. Cl.** ..... **205/743; 205/744; 205/755; 205/756; 204/229.2; 204/229.4; 204/275.1**

(58) **Field of Search** ..... **205/743, 744, 205/755, 756; 204/229, 275, 275.1, 229.2, 229.4**

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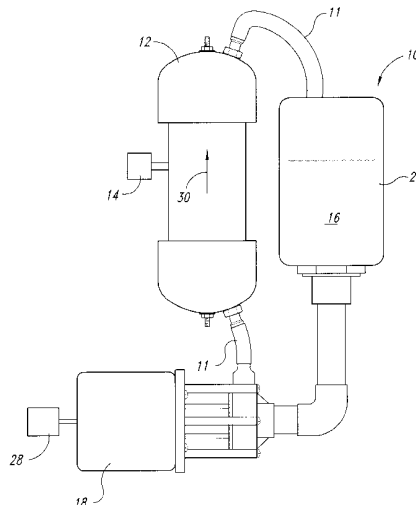
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(57) **ABSTRACT**

A method and apparatus for increasing the oxygen content of water have been shown and described. A volume of water is passed between the electrodes of an electrolytic cell, a portion of the volume of water converting to dissolved oxygen. A desired level of dissolved oxygen is selected, and the number of times the volume of water must flow through the electrolytic cell to ensure that the volume of water contains the selected percentage of dissolved oxygen is also selected. The volume of water is then forced through the cell the selected number of times, such that the volume of water contains the desired percentage of dissolved oxygen. The electrolytic cell is in fluid communication with a tank and a pump, the pump drawing the volume of water from the tank and forcing it through the electrolytic cell and back into the tank. The volume of water is thereby recirculated through the electrolytic cell by the pump for the selected number of times.

**9 Claims, 4 Drawing Sheets**



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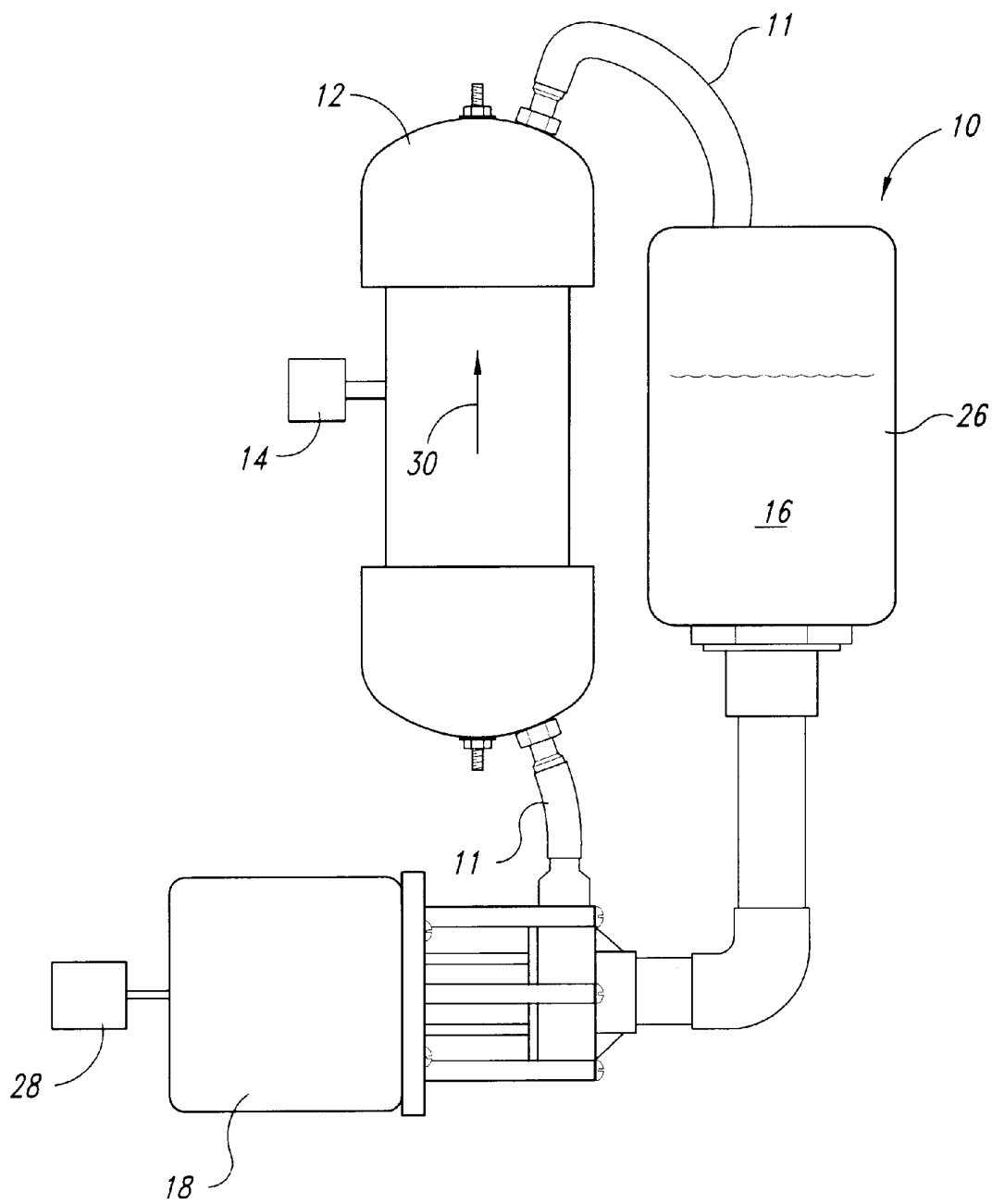


Fig. 1

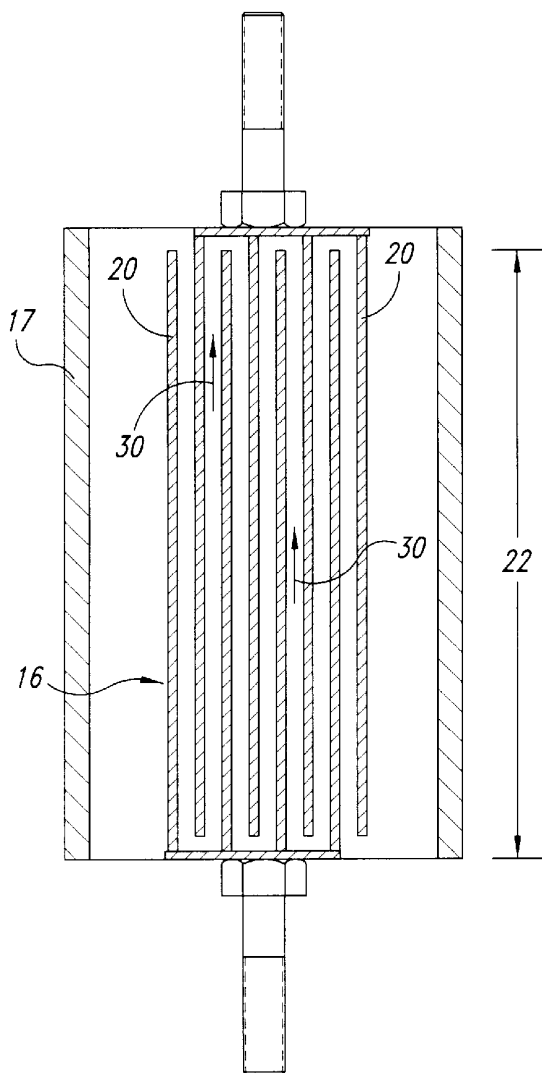


Fig. 2A

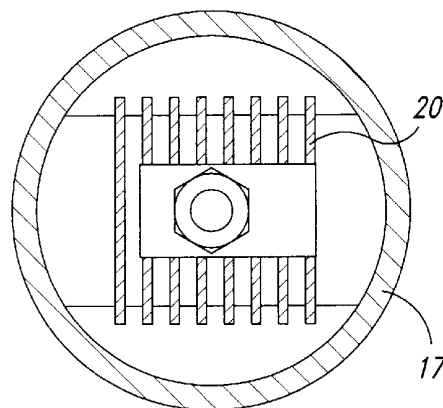


Fig. 2B

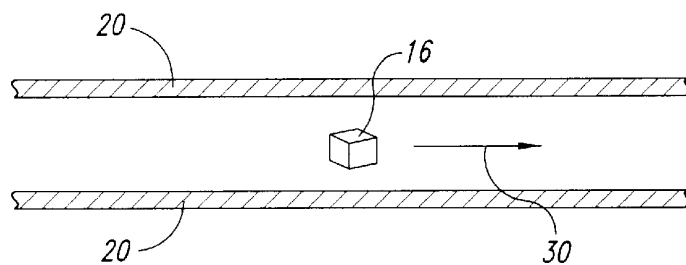


Fig. 3

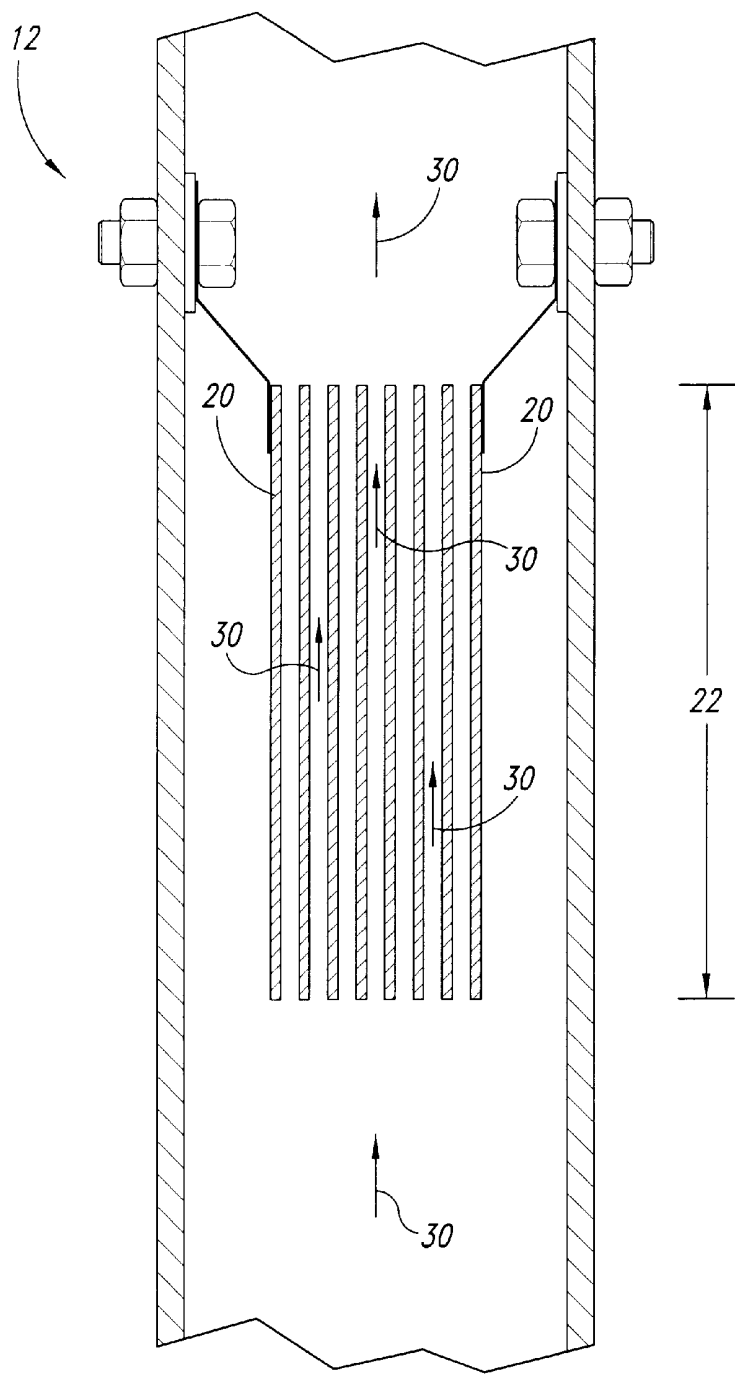


Fig. 2C

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