

United States Patent [19]

Murrell

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[54] WATER CLEANING SYSTEM

[76] Inventor: Wilfred A. Murrell, Wilga Farm, Hillston, New South Wales, Australia, 2675

[21] Appl. No.: 497,850

[22] Filed: Mar. 23, 1990

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 5,726, Jan. 21, 1987, abandoned.

[30] Foreign Application Priority Data

Jan. 21, 1986 [AU] Australia PH4293

[51] Int. Cl.⁵ C02F 1/46

[52] U.S. Cl. 204/268; 204/269; 204/275; 210/192; 210/243

[58] Field of Search 210/192, 243, 748, 717; 204/149, 268, 269, 275, 280, 284, 292

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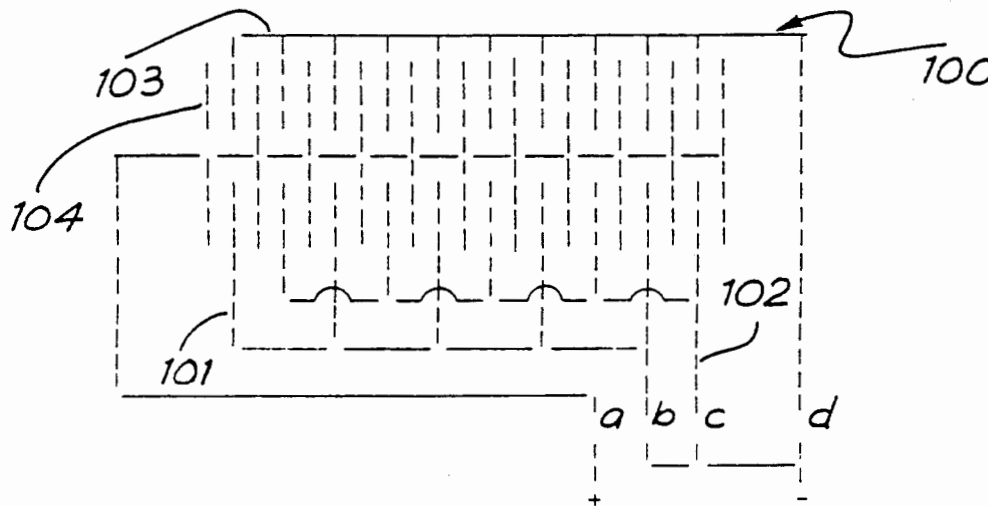
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Primary Examiner—Peter Hruskoci
Assistant Examiner—Robert James Popovics
Attorney, Agent, or Firm—Cushman, Darby & Cushman

[57] ABSTRACT

A method and apparatus for treating water contained in a tank to remove contaminants by passing a current through a novel electrode arrangement characterized by vertically disposed electrodes plates. Positive and negative half length electrode pairs are arranged vertically with respect to one another. Such electrode pairs are used in conjunction with full length, active or passive vertical electrode plates which are each adjacent a vertical pair. Preferably the electrodes and tank are made of aluminium.

10 Claims, 7 Drawing Sheets



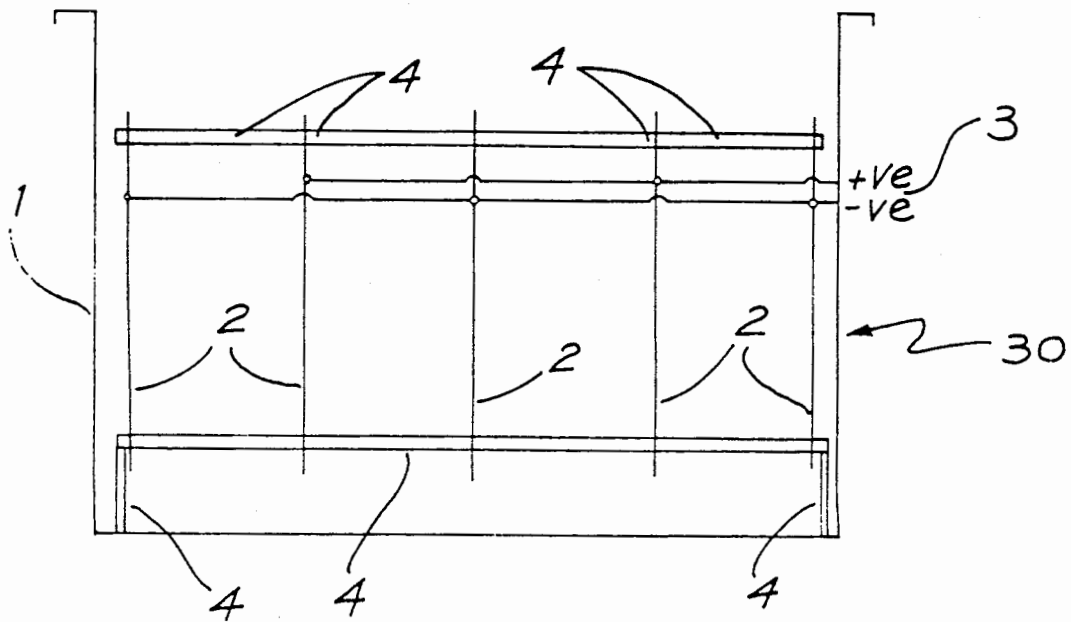


FIG. 1

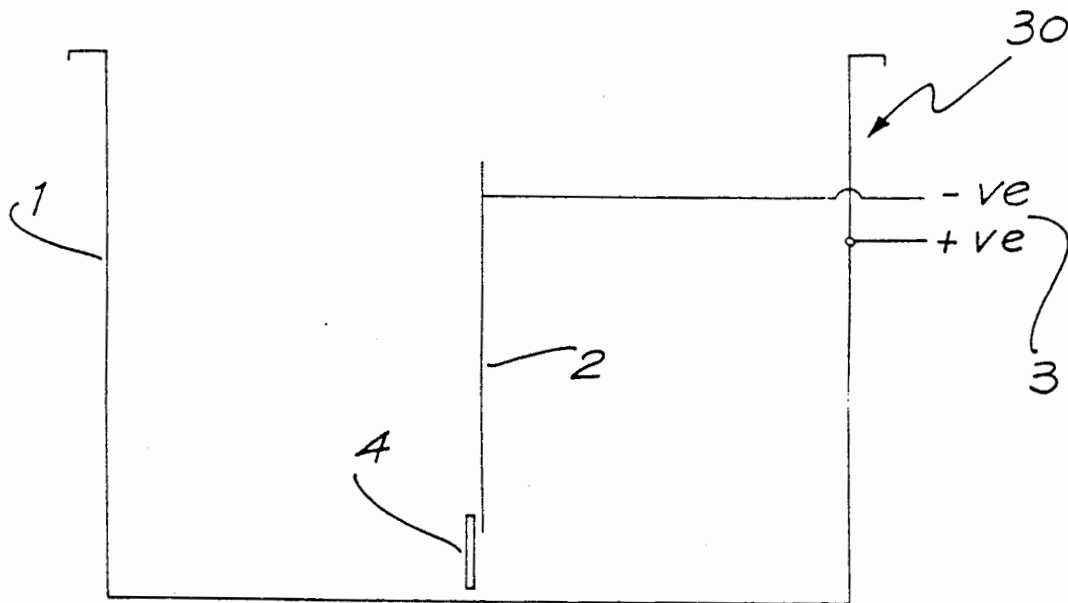


FIG. 2

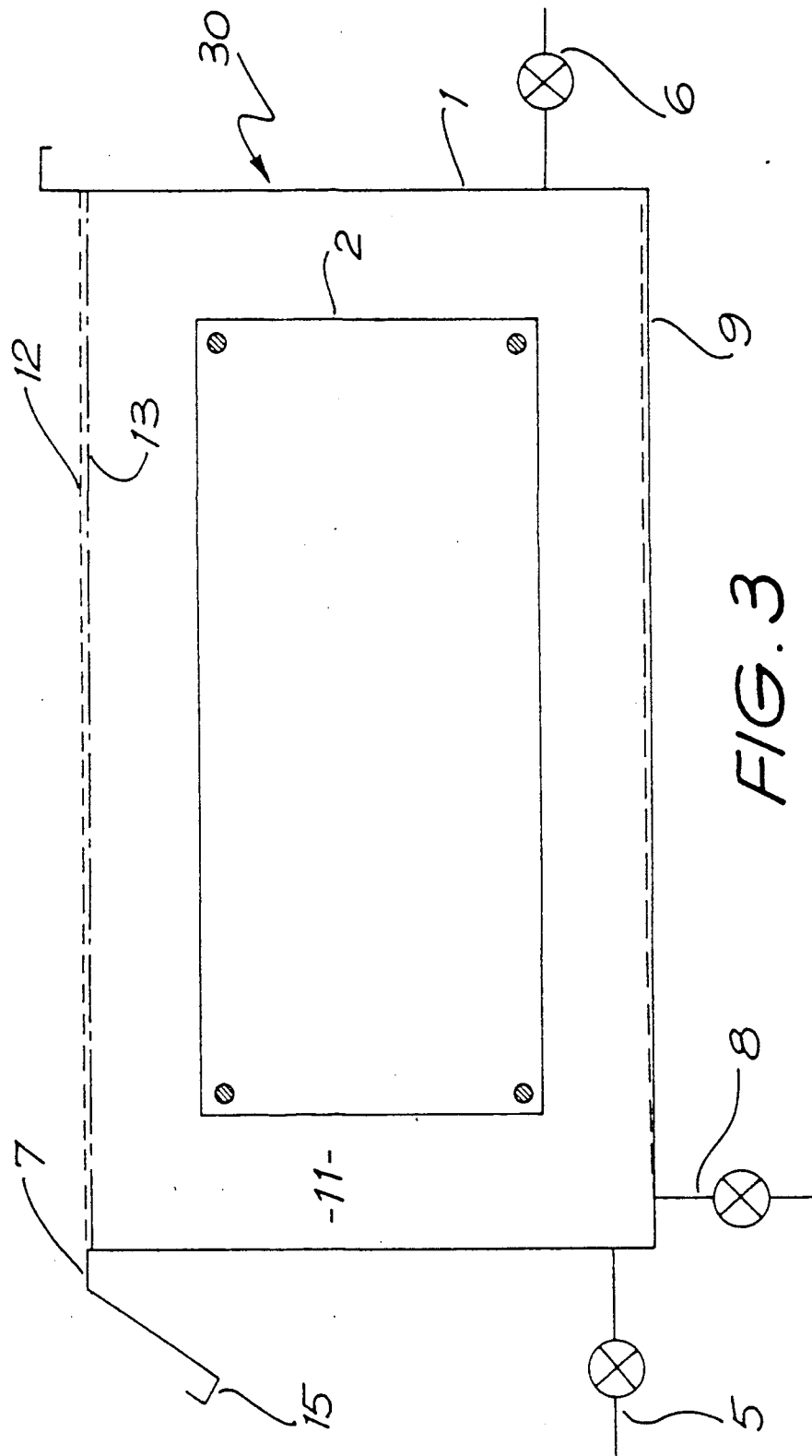


FIG. 3

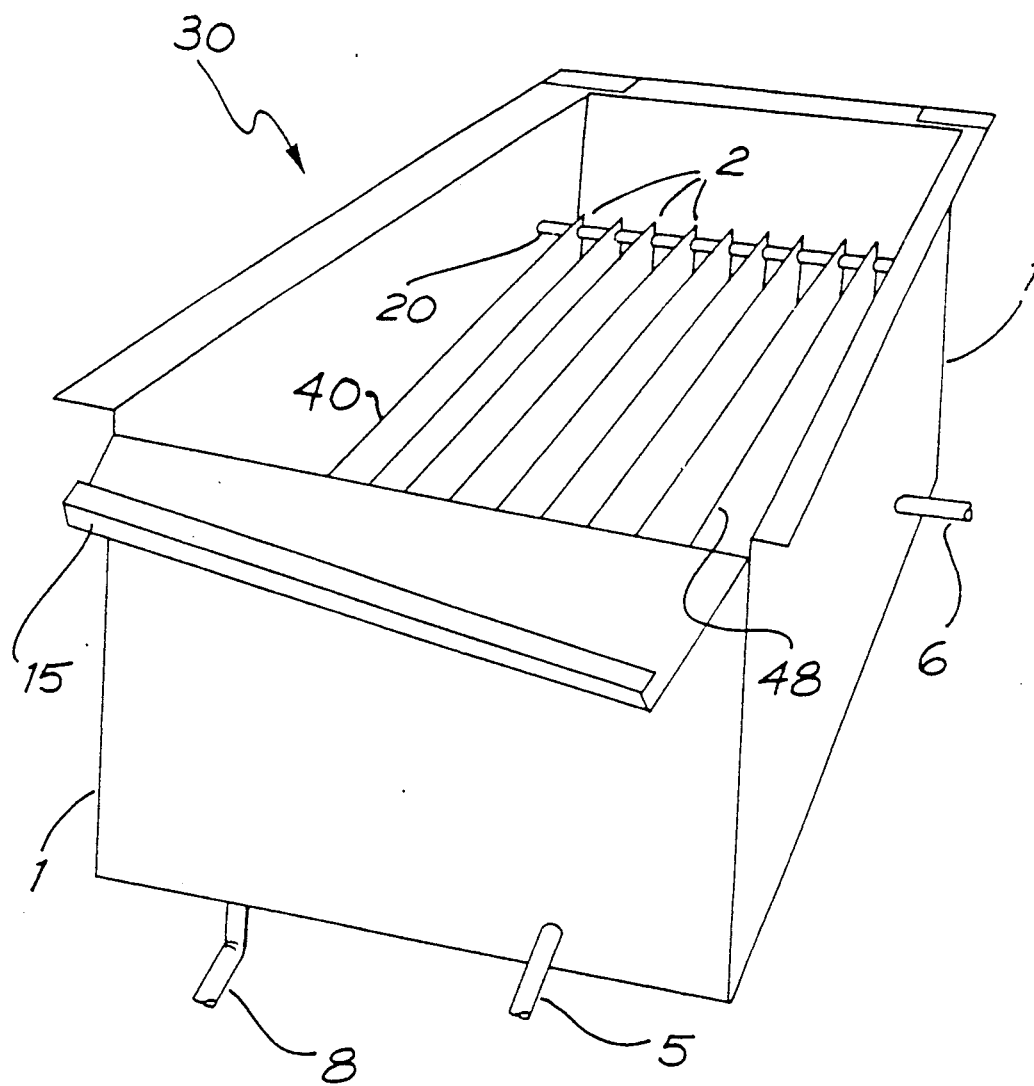


FIG. 4

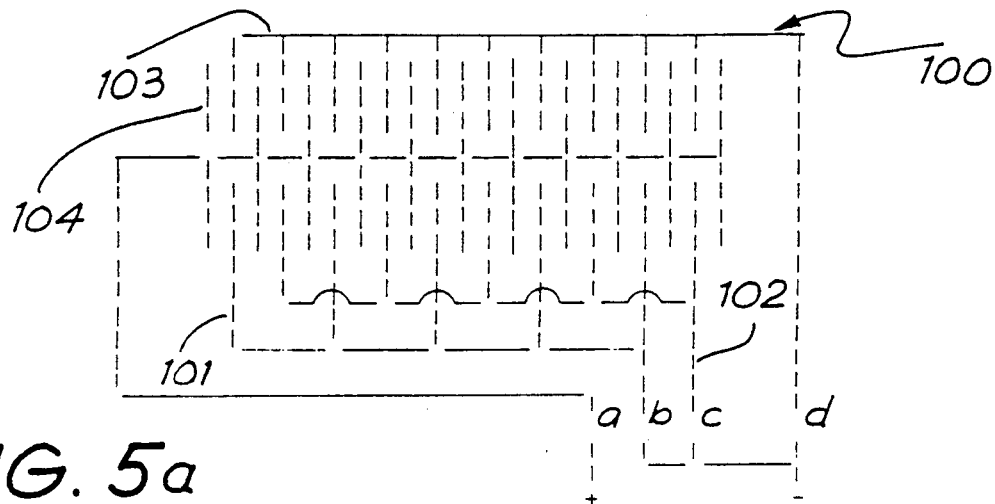


FIG. 5a

FIG. 5b

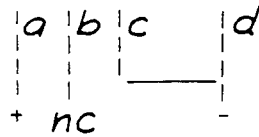


FIG. 5c

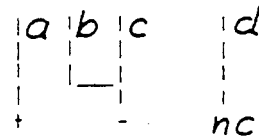


FIG. 5d

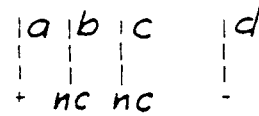


FIG. 5e

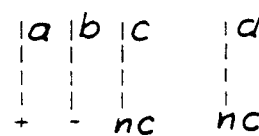


FIG. 5f

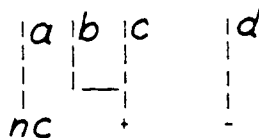
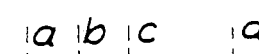
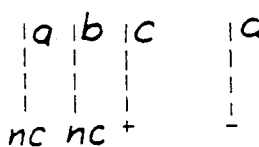


FIG. 5g



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