United States Patent [19]

3,984,303 Peters et al. [45] Oct. 5, 1976

[54]		NE ELECTROLYTIC CELL WITH FRIC ELECTRODES
[75]	Inventors:	Edward J. Peters, Chardon; J. Edward Loeffler, Jr., Willoughby, both of Ohio
[73]	Assignee:	Diamond Shamrock Corporation, Cleveland, Ohio
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[52]	U.S. Cl	
[51]	Int. Cl. ²	204/259; 204/272 C25B 1/24; C25B 1/26; C25B 9/00; C25B 11/00
[58]	Field of Se	arch 204/260, 272, 265, 259, 204/252
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[11]

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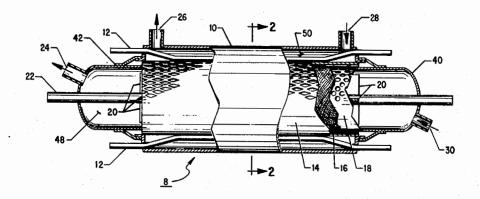
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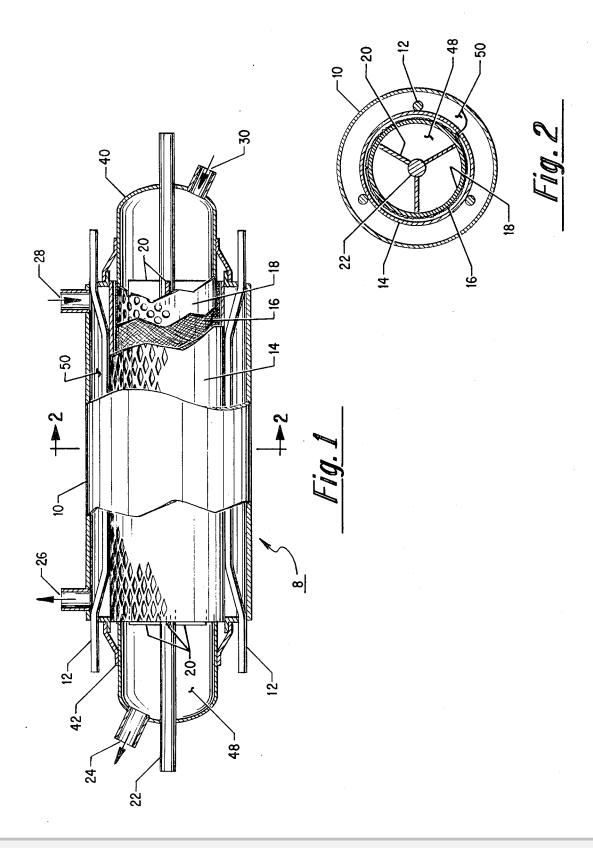
Primary Examiner-John H. Mack Assistant Examiner-A. C. Prescott Attorney, Agent, or Firm-William A. Skinner

[57] **ABSTRACT**

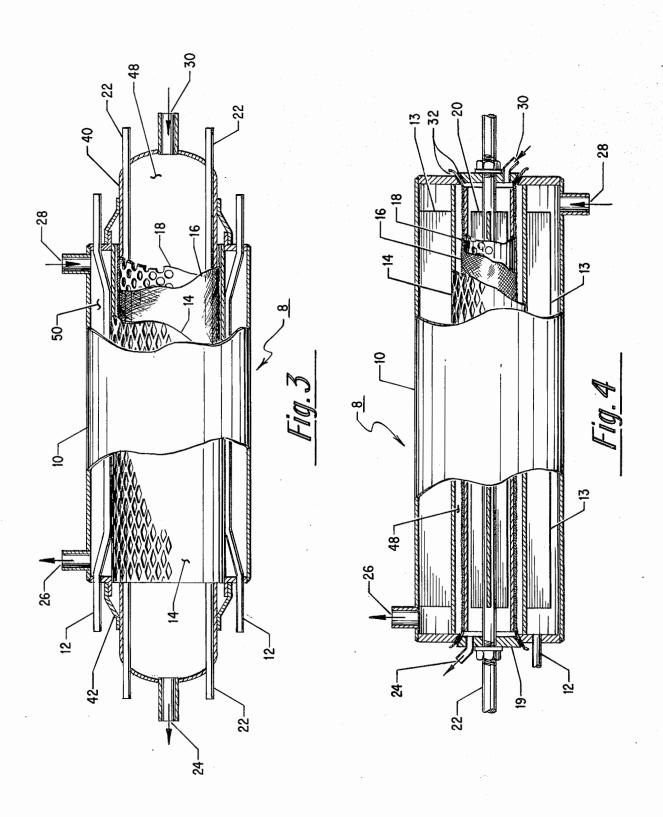
Electrolytic cell in which hollow cylindrical electrodes are arranged concentrically, anode within the cathode, and having a tubular ion permeable membrane supported on the outside of the anode separating the anolyte and the catholyte. The anolyte is contained within the membrane-anode structure, affording reduced construction cost and greater efficiency per unit of cell volume.

15 Claims, 7 Drawing Figures

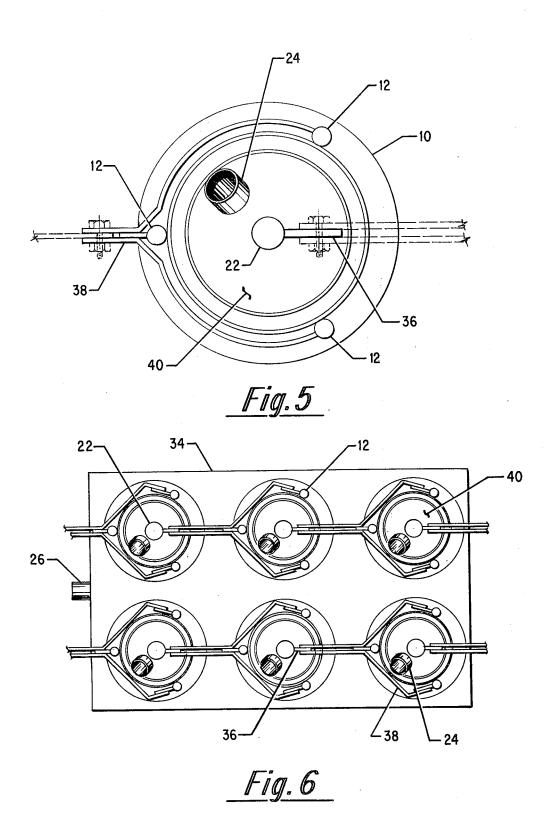


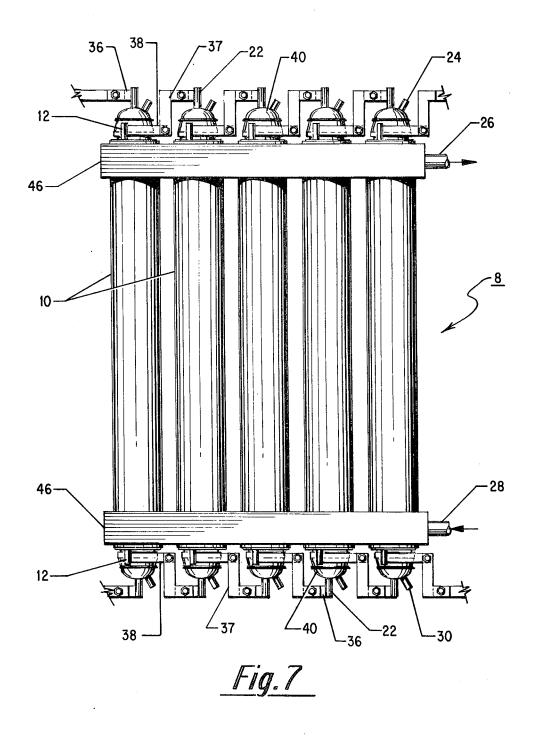












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