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(71) Applicant: **DIAMOND SHAMROCK CORPORATION**
1100 Superior Avenue
Cleveland Ohio 44114(US)

(72) Inventor: **LaBarre, Ronald Lowry**
19806 Bromley Lane
Huntington Beach California 92646(US)

(74) Representative: **Oliver, Roy Edward et al,**
POLLAK, MERCER & TENCH High Holborn House 52-54
High Holborn
London WC1V 6RY(GB)

(54) **Chloralkali electrolytic cell and method for operating same.**

(57) Disclosed are methods of operation for oxygen electrodes which maximize the power efficiency available from such oxygen electrodes while minimizing the voltage necessary to operate such oxygen electrodes. These methods include control of the pressure of the gas feed side of the oxygen electrode, control of the total flow of the gas feed side, the humidification of the gas feed side of the oxygen electrode and the elimination of CO₂ from the gas feed to the oxygen electrode to increase the lifetime of such electrodes as applied to a chlor-alkali electrolytic cell.

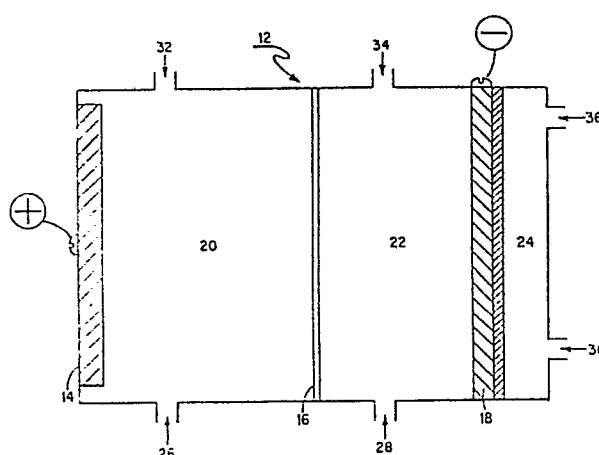


Fig. 1



European Patent
Office

EUROPEAN SEARCH REPORT

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EP 79 30 0369

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ²)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	<u>US - A - 3 926 769</u> (GRITZNER) * Column 6, lines 6-10; claim 9 * -- <u>US - A - 3 923 628</u> (GRITZNER) * Claim 8 * -- <u>US - A - 2 681 887</u> (BUTLER) * Claims * -- <u>GB - A - 832 196</u> (BILLITER) * Claims * -- CHEMICAL ABSTRACTS, vol. 88, 23rd January 1978, Columbus, Ohio, USA, FUJITA, YUKO et al.: "Electrolysis of alkali chloride and the appa- ratus", page 421, right-hand column, abstract nr. 29364n & JP - A - 77 12 4496 (FUJITA) -- A <u>US - A - 3 775 272</u> (DANNA) * Figure 2 * ----	1,8, 11-13 1,8,11 1,11 1,11 1,11	C 25 B 1/46 TECHNICAL FIELDS SEARCHED (Int.Cl.²) C 25 B 1/46 CATEGORY OF CITED DOCUMENTS X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons &: member of the same patent family, corresponding document
<i>K</i> The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		15-06-1979	NGUYEN THE NGHIEP