

Title (en)  
Activated cathode for chlor-alkali cells and method for preparing the same.

Title (de)  
Aktivierte Kathode für Chlor-alkali Zellen und Verfahren zu deren Herstellung.

Title (fr)  
Cathode activée pour cellules chlore-alkali et son procédé de fabrication.

Publication  
**EP 0610946 A1 19940817 (EN)**

Application  
**EP 94102148 A 19940211**

Priority  
IT MI930255 A 19930212

Abstract (en)  
An activated cathode assembly for use in diaphragm or membrane electrolysis cells comprising pairs of interleaved cathodes and anodes (B) having openings, said cathodes being provided with a corrosion resistant ion exchange membrane or porous diaphragm, said cells (C) being provided with inlets for feeding brine and outlets for the withdrawal of chlorine (H), hydrogen (I) and caustic (L), the cathode assembly comprising a rigid cathode structure covered with a thin and flexible corrosion resistant, perforated or expanded sheet or mesh (F) provided with an electrocatalytic coating for hydrogen evolution in an alkaline environment, the cathode structure and sheet or mesh (F) being in electrical and mechanical contact with each other; method of preparing said assembly and an electrolysis cell using said assembly.

IPC 1-7  
**C25B 9/00**; **C25B 11/03**

IPC 8 full level  
**C25B 9/19** (2021.01); **C25B 9/23** (2021.01)

CPC (source: EP)  
**C25B 9/19** (2021.01); **C25B 11/03** (2013.01)

Citation (search report)  
• [X] US 4409085 A 19831011 - KADIJA IGOR V [US], et al  
• [XY] FR 2606794 A1 19880520 - PERMELEC SPA [IT]  
• [DY] EP 0405559 A2 19910102 - ASAHI GLASS CO LTD [JP]

Cited by  
US5961795A; CN102031534A

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0610946 A1 19940817**; BG 98449 A 19941115; BR 9400498 A 19940823; CA 2114757 A1 19940813; CN 1090893 A 19940817; IL 108489 A0 19940530; IT 1263898 B 19960905; IT MI930255 A0 19930212; IT MI930255 A1 19940812; JP H06340991 A 19941213; NO 940458 D0 19940210; NO 940458 L 19940815; PL 302210 A1 19940822; ZA 94915 B 19940822

DOCDB simple family (application)  
**EP 94102148 A 19940211**; BG 9844994 A 19940210; BR 9400498 A 19940210; CA 2114757 A 19940202; CN 93118587 A 19931023; IL 10848994 A 19940131; IT MI930255 A 19930212; JP 1500894 A 19940209; NO 940458 A 19940210; PL 30221094 A 19940211; ZA 94915 A 19940210