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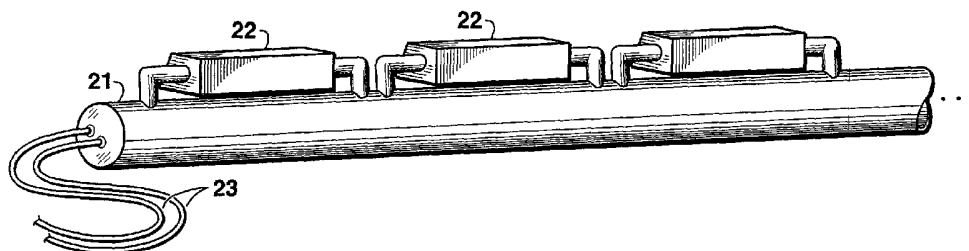
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(54) Title: OFFSHORE CATHODIC PROTECTION ANODE SYSTEM



(57) Abstract: A cathodic protection system for offshore structure includes an elongated electrode carrier, such as a pipe, with a plurality of sacrificial anodes attached, that is placed on the ocean floor and electrically connected to the structures to be protected. The system is particularly useful for retrofitting cathodic protection systems for offshore structures that have exceeded their expected life.

**INTERNATIONAL SEARCH REPORT**

PCT/US 01/25967

**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C23F E02B F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
 EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 038 168 A (KUWA MORIHIKO ET AL) 26 July 1977 (1977-07-26)  column 1, line 21 - line 26 column 4, line 47 - column 5, line 3; figure 3  -----	1-3, 5, 6, 8-10, 13, 14
A	US 4 609 307 A (PLUGGE JOHN R ET AL) 2 September 1986 (1986-09-02) cited in the application column 1, line 38 - line 46  -----	1-14
A	US 4 487 230 A (ANTHONY DONALD R) 11 December 1984 (1984-12-11) claim 4; figure 1  -----  -/--	1, 2, 8, 9

Further documents are listed in the continuation of box C.       Patent family members are listed in annex.

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*P* document published prior to the international filing date but later than the priority date claimed	

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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Desbois, V
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PCT/US 01/25967

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2 870 079 A (MCCALL RICHARD H) 20 January 1959 (1959-01-20) column 1, line 44 - line 50; figure 1 -----	1-14
A	GB 1 548 367 A (MORGAN J H; MORGAN BERKELEY & CO LTD) 11 July 1979 (1979-07-11) page 2, line 130 - page 3, line 19 -----	1-14
A	US 4 040 447 A (SCOTT GORDON N) 9 August 1977 (1977-08-09) column 3, line 50 - line 5; figure 5 -----	1-14

**INTERNATIONAL SEARCH REPORT**

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 4609307	A	02-09-1986	NONE
US 4487230	A	11-12-1984	NONE
US 2870079	A	20-01-1959	NONE
GB 1548367	A	11-07-1979	NONE
US 4040447	A	09-08-1977	NONE