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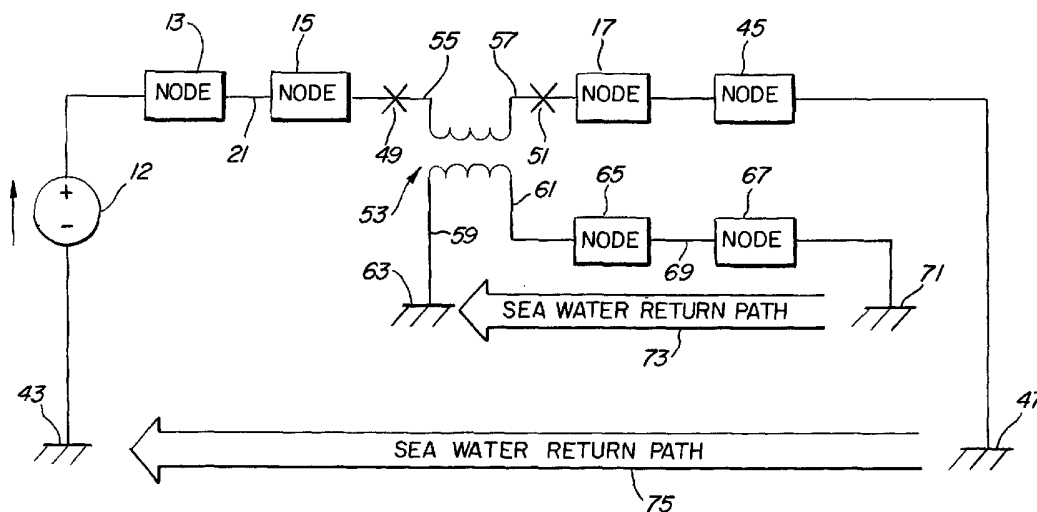
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ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR BRANCHING A SINGLE WIRE POWER DISTRIBUTION SYSTEM



(57) Abstract: In a single wire underwater power distribution system, parallel branching nodes are added in a manner that makes the branch connection and branch line look like a series node to the shore based power source (12). The primary side of a DC-DC converter (53) functioning as an ideal transformer working down to DC is connected into the series line where a branching series line is desired. One side of the secondary creates the branched series path. The other side of the secondary goes to seawater ground, establishing a new local seawater ground.



SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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INTERNATIONAL SEARCH REPORT

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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 H04B H02J

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 644 787 A (HAMILTON BILLY HAROLD) 22 February 1972 (1972-02-22) column 3; figure 2	1-18
A	DE 14 62 219 A (SIEMENS AG) 21 November 1968 (1968-11-21) page 4, line 10 - line 29; figure 2	1-18
A	EP 0 226 801 A (FUJITSU LTD) 1 July 1987 (1987-07-01) paragraph '0052!; figure 4	1-18
A	US 2002/181261 A1 (GAUDREAU MARCEL PIERRE JOSEPH) 5 December 2002 (2002-12-05) figures 1,4	1-18

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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