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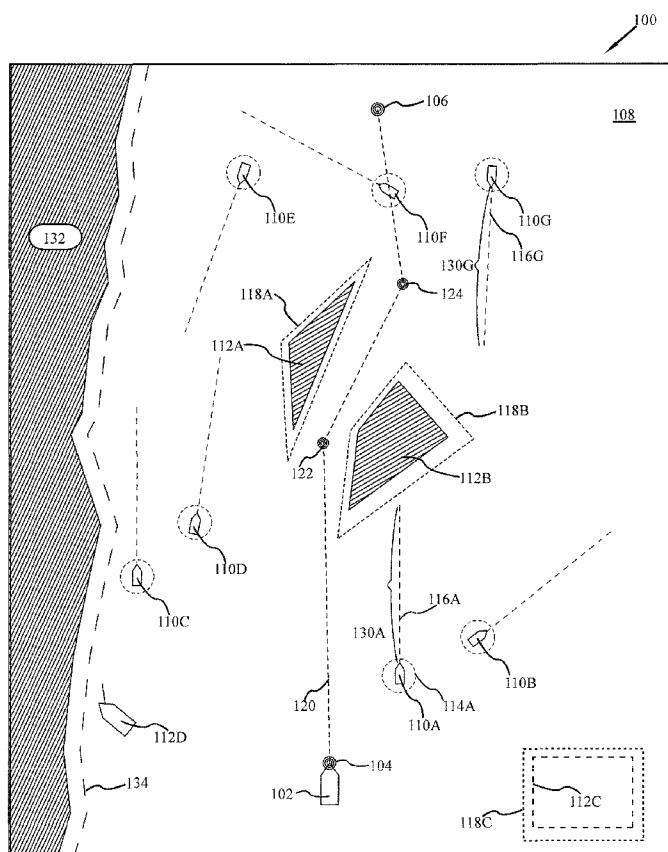
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[Continued on next page]

(54) Title: ROUTE-PLANNING INTERACTIVE NAVIGATION SYSTEM AND METHOD



(57) Abstract: The route planning and evaluation system (100) includes a host object (102) location device (200) operable to provide the location of a host object (102) over the passage of time, and a sensor (202), operable to sense objects (110) and data from an environment (108) proximate to the host object (102). A computer (208) is coupled to the location device (200), the sensor device (202), a chart library (204) and a display (206). The computer includes (208) a route generator (210) to generate a predicted route (130) of at least one sensed object (112). The route generator (210) also generates a planned route (120) of the host object (102). The planned and predicted routes (120, 130) are displayed upon the display (206). In response to a predicted proximate convergence (302) of the host object (102) and at least one sensed object (110), the convergence signaled to the operator.



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A. CLASSIFICATION OF SUBJECT MATTER**G08G 3/02(2006.01)i, G08G 1/07(2006.01)i**

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 8 G08G G01C

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

Korean Utility models and Applications for Utility models since 1975.

Japanese Utility models and Applications for Utility models since 1975.

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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"Keywords: route-planning, GPS, predict, plan, sensor, vessel, ship, warning and collision"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR1019980046502 A (SAMSUNG ELECTRONICS CO., LTD.) 15 SEPTEMBER 1998 See page 3, claims 1-2 and figures 1, 3	1-35
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Y	US6151539 A (RALF BERGHOLZ et al.) 21 NOVEMBER 2000 See the abstract and claims 1, 30	1-35

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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