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(54) Title: DETERMINING A VIRTUAL REPRESENTATION OF AT LEAST PART OF AN ENVIRONMENT

(57) Abstract: Disclosed is a system (1000) for determining a virtual representation of at least part of an environment (800) that is navigable by a ship (700). The system has at least one beacon (101, 102, 201, 202, 301, 302, 401-403) remote from the ship. The or each beacon comprises at least one sensor (411-415) for sensing surroundings information representative of at least part of the environment, a transmitter (420), and a controller (430) connected to the at least one sensor and configured to cause the surroundings information to be transmitted via the transmitter. The system also comprises a control centre (500) remote from the ship. The control centre comprises a receiver (520) configured to receive the surroundings information, and a control unit (530) connected to the receiver and configured to determine a virtual representation of at least part of the environment based on the surroundings information. The virtual representation may comprise a topographical map, such as a LIDAR map.

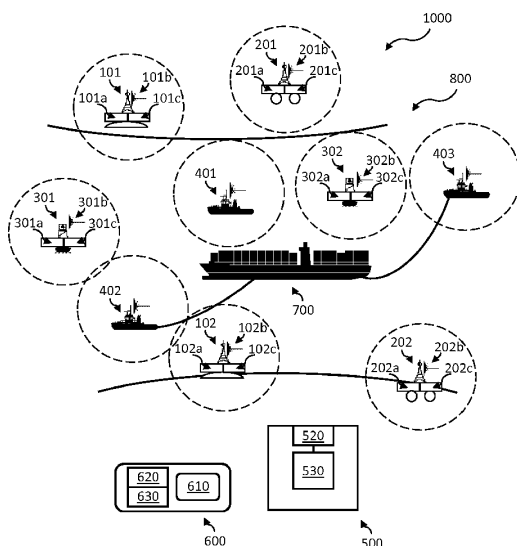


Figure 1

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