ABSTRACT

WAVE POWER GENERATION APPARATUS

A wave power generation apparatus includes: a rack device having plural columns, and the bottom of the column being fixed to a nearshore seabed; at least one linking device installed on the rack device and having at least one frame; a sliding assembly installed to the frame and having a longitudinally installed first sliding element and a longitudinally installed second sliding element; a first buoy connected to the bottom of the frame; a gear set including a first gear and a second gear; a rotating shaft pass and installed to the gear set and linked by the gear set for a one-way rotation; a power conversion device transmissively connected to the rotating shaft; and a power generation device transmissively connected to the power conversion device to generate electric power.

Figure: 2