

[54] WAVE MEASURING APPARATUS

[75] Inventor: Lawrence A. Buckler, Nova Scotia, Canada

[73] Assignee: Her Majesty the Queen in right of Canada, as represented by the Minister of National Defence

[22] Filed: Nov. 18, 1971

[21] Appl. No.: 199,951

[30] Foreign Application Priority Data

Jan. 29, 1971 Canada..... 104,004

[52] U.S. Cl. 73/170 A, 73/517 R

[51] Int. Cl. G01p 5/00

[58] Field of Search 73/170 A, 517 R

[56] References Cited

UNITED STATES PATENTS

3,110,178 11/1963 Marks et al. 73/170 A
3,383,915 5/1968 Gilbert..... 73/170 A

Primary Examiner—Richard C. Queisser
Assistant Examiner—Stephen A. Kreitman
Attorney—R. S. Sciascia et al.

[57] ABSTRACT

Wave measuring apparatus for determining the wave height on the surface of the sea, including a buoy having an antenna whereby when floating on the sea its motion causes electronic circuitry within it to transmit bursts of RF signals, the pulse repetition rate varying directly in proportion to the acceleration applied to the buoy as it moves up and down on the surface of the sea in which it is located. Ship-borne apparatus is provided to receive the signals transmitted by the wave buoy to analyze them and to provide an indication of the height of the waves of the sea in which the buoy is located.

10 Claims, 14 Drawing Figures

