APPARATUS AND METHOD FOR EXTRACTING ENERGY FROM A FLUID

ABSTRACT

An apparatus and method is disclosed for extracting energy from an oscillating working fluid, such as ocean waves. The apparatus 10 comprises an internal flow passage 40 for the working fluid, a turbine 44 and a flow control device 38, each of the turbine 44 and the flow control device 38 being in direct fluid communication with the flow passage 40, wherein in use the flow control device 38 is selectively moveable between a first configuration in which the flow control device 38 is open to allow a flow of the working fluid, such as air, to exit the flow passage 40 therethrough, and a second configuration in which the flow control device 38 restricts a flow of the working fluid therethrough. In such an instance, the working fluid then must enter the flow passage 40 via the turbine 44, which can be harnessed to generate electricity.

Fig. 4