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(54) Title: FLUID PUMPING APPARATUSES POWERED BY WAVES OR FLOWING CURRENTS

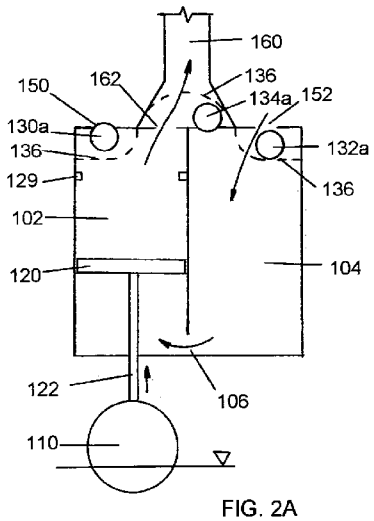


FIG. 2A

(57) Abstract: The present invention describes several fluid pumping apparatuses (100, 100a-100h) and their applications (200a-200f) in extracting energy from waves or flowing currents. The pumping apparatuses (100, 100a-100h) are driven by a float (110), an oscillating pontoon (210), and oscillating paddle (213), an impeller (214), a vertical rotary wheel (218) or a pendulum member (220). The pumped fluid (water and/or air) is supplied to drive a fluid motor M or a turbine T, which in turn operates a generator G to produce electric power.