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(54) Title: CONVERTING KINETIC ENERGY OF FLUID CURRENTS INTO ELECTRICITY

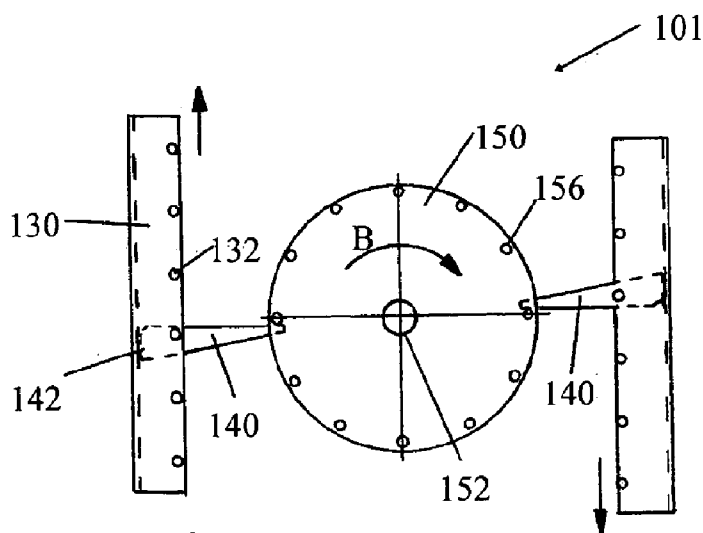


FIG. 1C

(57) Abstract: The present invention describes apparatuses (100,200,300,400) for converting kinetic energy of waves and/or fluid currents, including wind currents, into electricity. One apparatus comprises a rack (130,330,430) and a wheel (150,160,170,370) in engagement. In one embodiment, the rack (130,330,430) has rake teeth (140,141a,141b); these rake teeth (140,141a,141b) are operable to pivot or extend/retract; in another, the wheel (170,370) has rake teeth (176). The rack can be straight, curved, circular or in the form of a ring. These racks double act on the wheel (150,160,170,370), which in turn is coupled to a generator (10) to produce electricity.