

**ABSTRACT****HIGH TORQUE OUTPUT DRIVE SYSTEM**

A high torque output drive system includes a fluid tank (2) that stores a fluid (200), an array of weighted members (33) disposed in series such that leading and trailing subarrays (33a,33b) thereof are respectively placed along left and right running routes (364) in the fluid tank (2), upper and lower direction reversing guide units (34) respectively defining upper and lower guide routes (348) each of which interconnects the left and right running routes (364), a fluid pump (4) operable to move the fluid (200) such that levels of the fluid (200) in left and right columnar regions (292,291) of the fluid tank (2) are variable to result in generation of a buoyant force for lessening the weight of the trailing subarray (33b) so as to induce synchronized downward and upward movements of the leading and trailing subarrays (33a,33b), and a force-output shaft (321) coupled to the weighted members (33) by a gear train unit and revolvable to provide a high torque for a desired end use.

Fig. 1 is suggested for publication

