ABSTRACT

POSITIVE DISPLACEMENT PUMP APPARATUS

A positive displacement pump apparatus (10) comprising at least one vane (12) projecting into a housing (16), each vane (12) being pivoted to a rotating support means with the pivot point of the vane moving in a circular path (76) and, simultaneously, each vane (12) moving through the housing (16) through a positive displacement region (70) and then moving through a non-positive displacement region under a return slot, wherein each vane (12) is configured to rotate independently on the rotating support means in a controlled manner about its pivot point as the vane (12) is rotated by the rotating support means.

(Figure 4 to accompany Abstract when published)