

**WHAT IS CLAIMED IS:**

1. An apparatus for self-generating a driving force, comprising:

a mechanical driving device, having a rotating shaft, the rotating shaft including at least one set of two arms, said two arms arranged at a predetermined angle with each other, an end of each of said arms attached with at least one magnetic body; and

at least one set of two coils, arranged stationary in said predetermined angle, one opening of each coil perpendicularly facing said rotating shaft,

wherein winding terminals at said one opening of each said set of said coils are electrically connected with each other through a switching element arranged to turn on when a current is induced in one of said coils to thereby short a circuit through the other of said coils and generate an electromotive force and produce a repulsive force between said other coil and a corresponding magnetic body, other winding terminals at the other opening of each said set of said coils are electrically connected together directly, wherein a polarity of each magnetic body is arranged such that a repulsive force is present between each of said magnetic body and a corresponding coil.

2. The apparatus according to claim 1, wherein said magnetic