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(56) Documents Cited:
US 9478336 B2   **US 7154368 B2**
ANVAR SHUKUROV et al,"Dynamo acton in Mobius
flow",01.08.08,PHYSICAL REVIEW E 78.
KR 1020070015944

(58) Field of Search:
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utility models, eKOMPASS (KIPO Internal).

(54) Title of the Invention: **A Magnetic toroid and a magnetically actuated rotary coupling device comprising thereof**
Abstract Title: **A Magnetic toroid and a magnetically actuated rotary coupling device comprising thereof**

(57) The present invention relates to a magnetic toroid (100) characterized by a Möbius-like toroid twisted by a degree, wherein the cross section of the Möbius-like toroid is a closed shape with at least four straight sides, wherein each side of the Möbius-like toroid is orthogonally magnetized to form the magnetic toroid (100), thereby creating a magnetic field having rotating polarity around the magnetic toroid (100) when the magnetic toroid (100) is spinning on its axis. The present invention also relates to a magnetically actuated rotary coupling device (200) comprising a first magnetic toroid (101) and a second magnetic toroid (102) being disposed adjacent to the first magnetic toroid (101), wherein the first magnetic toroid (101) is rotatable on its own axis relative to motion of the second magnetic toroid (102) when portions of their respective magnetic fields interact with each other.
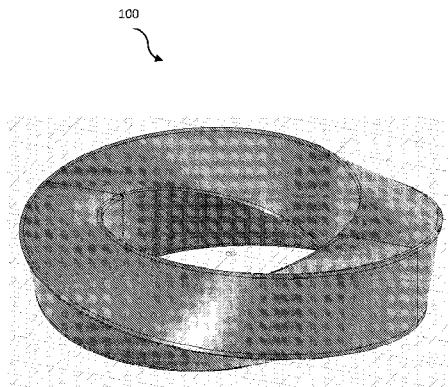
100

Figure 1

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