

Contactless Power Transmission Using Magnetic Gears

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Abstract: *Neodymium magnets are powerful magnets, which are about 12 times stronger than normal magnets used in speakers. With the advent of magnetic gears, researchers have developed a new breed of permanent-magnet machines. These magnetic geared permanent-magnet machines artfully incorporate the concept of magnetic gearing into the permanent-magnet machines, leading to achieve low-speed high-torque direct-drive operation.*

Keywords: Power transmission

REFERENCES

- [1]. C.G Armstrong: "Power Transmitting Device ", Unites States Patent Office, No. 687, 292, 26th Nov 1901.
- [2]. H.T Faus: "Magnetic Gearing ", Unites States Patent Office, No. 2, 243, 555, 27th May 1941.
- [3]. T. B Martin, JR: "Magnetic Transmission ", Unites States Patent Office, No. 3, 378, 710, 16th April 1968
- [4]. K. Atallah et al: A Novel High Performance Magnetic Gear, IEEE Transactions on Magnetics, Vol. 37, No. 4, pp. 2844-2846, 2001