

ABSTRACT

Since strong magnet Neodymium magnet invented, many field of electronic products and other products use strong magnet for their applications. But the strongest magnets are used on electric devices are still limited. Because the stronger magnetic field is more holding any iron base metal and even aluminum and alloy.

Example of small wind turbine without gears, it has strong permanent magnetic rotor. Rotor design is either inside stator or outside stator. Both use either air core or non-magnetic core although magnetic flux is too strong, it can be spin lightly and EMF produce AC current. Stator coils keep on changing it's current by flux of magnet north and south pole passing.

If one group of magnetic flux is outside stator coils and at the same time another group of magnetic flux is inside same stator coils, it can accumulate more magnetic flux to pass coils and more efficient power can be produced by low torque and spinning.

That is my key idea and how to design it above described.

If compare example of bicycle of dynamo, It has permanent magnet and stator inside. Cycling it produce electric and light on. That experience in our childhood, but we notice that cycle more hardly to accelerate, we feel some of thing is pull back our cycling force. We know that why it happens so. Moment of stator produce electric by magnetic flux of permanent magnet, coil itself also reluctances electromagnetic field produce around stator core, it's core become like electromagnet. Although that electromagnet can induce coils to produce volt and current as well as It's action affect holding to permanent magnet that cause need more paddle power to produce electric.

In my design this action of effect is very low, can be span freely.