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16-1871-EL-BGN

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Ref: Case #16-1871-EL-BGN

Oct. 5, 2017

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Dear Sir/Madam,

The following are my comments on Project Icebreaker:

Why spend \$126 million on a technology that will be obsolete in the near future? The money should be spent more wisely on a new emerging technology called Magnetic Energy. A new patent pending motor has been developed. This hybrid motor is the first totally new motor design in well over 100 years! This motor runs on pulsed DC power and consumes only about 5% power of a convention electric motor. Approximately 95% of its speed and torque are produced by powerful permanent magnets as they are attracted to each other utilizing a new term that I coined called Progressive Magnetic Rotation.

This new motor has a series of rotors which are synchronized with timing gears. All the rotor poles have permanent magnet sets that progress in strength. Each motor consists of at least one rotor pole and the main rotor. The main rotor also has permanent magnets which progress in strength with the final one being an electro-magnet, which is the strongest. The electro-magnet is is connected to an electronic controller through a pair of slip rings and brushes. The function of the controller is to send an electrical pulse to the electro-magnet which in turn resets and sustains the progressive magnetic rotation. Timing of this pulse comes from a feedback device on the back of the motor which is connected to the controller. The number of pulses per revolution is determined by the number of rotor poles in the motor. As an example, four pulses per revolution are required for a four rotor pole motor (Ref: attached drawing).

The interesting thing about this motor is that when coupled to an alternator, it will actually produce more power than it consumes! This is true because it runs on approximately 95% permanent magnetic energy. This new system will propel us into the next energy age, Magnetic Energy! All other forms of energy including wind and solar will become obsolete just like the steam engine. This will result in all electric vehicles having an unlimited range! There will be unlimited electricity to power our homes, farms and factories from individual sources. Not only will the wind generators disappear from the landscape, we can also eliminate the entire aging power grid! These factors combined will solve many climate change issues, a major problem that we are currently facing.

For more details on this new motor, you can go to the U.S. Patent Website www.uspto.gov and click on "search for patents". Next go to the USPTO patent application full-text and image data base and click on "publication number search". Then enter publication number 20160156254. You can also call me at 330-898-8215 and if someone wishes to build a prototype system, I can grant a non-exclusive prototype licence for free! Thank you for your time.

Regards,

D. Bowen

Dale Bowen

Note:

I'm a retired Chief Engineer with 40 years experience in electronics and electric motor design. I have designed systems and electric motors for both the military and commercial industries. Like Nikola Tesla, I may be 40 years ahead of my time.



DALE R. BOWEN

Chief Engineer

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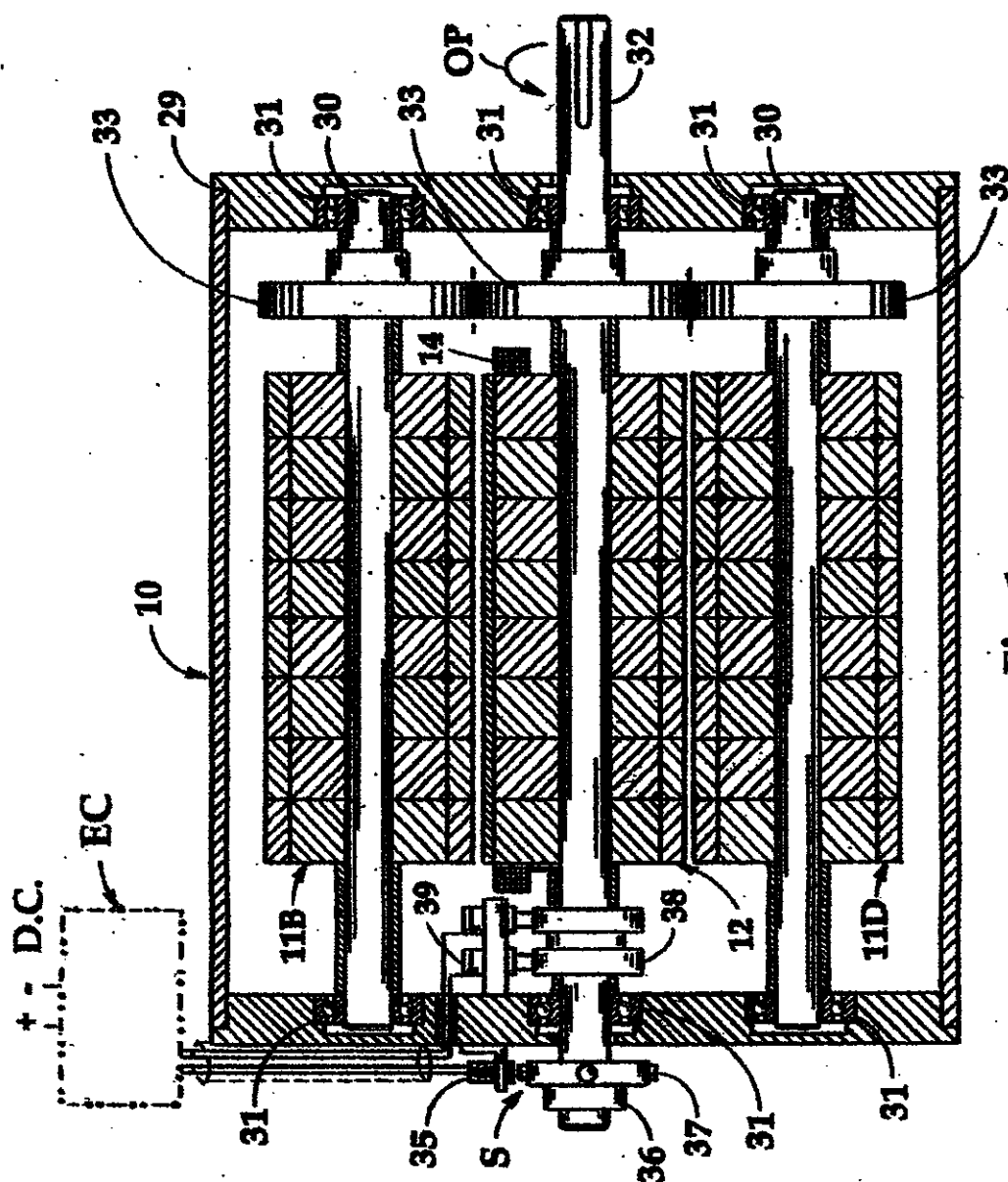


Fig. 1