



Inertial Fusion

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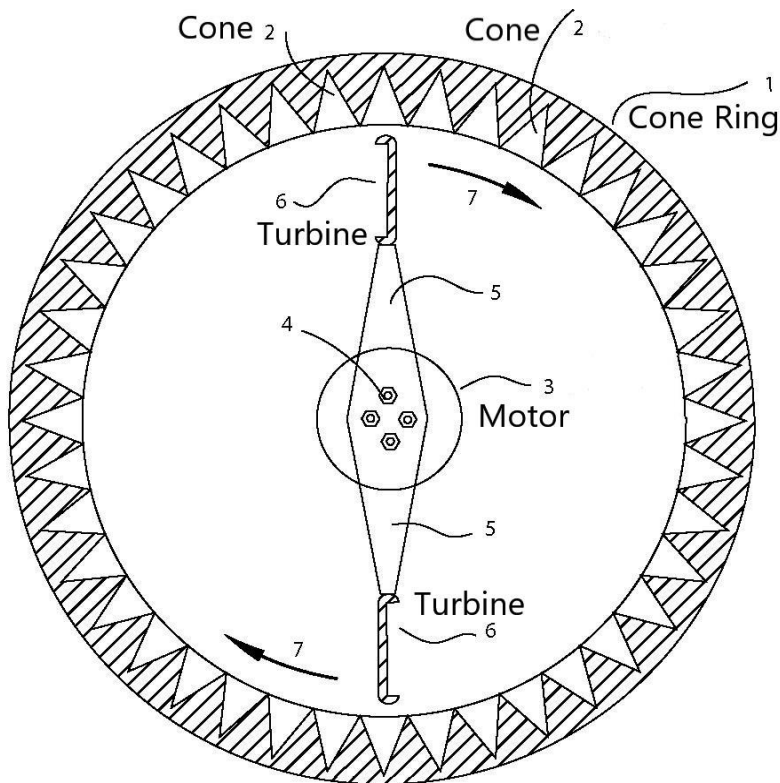
Fusion energy now

Fusion energy does not emit carbon. It is a solution for both the climate crisis and energy shortages. The number of electric vehicles grows rapidly and the demand for electricity will skyrocket. The fuel for fusion energy is found in sea water and is at an unlimited amount. Our goal is to develop a fusion reactor based on a new concept. The construction of this reactor is simple and it will cost less than a coal power station. The simple construction will shorten the research and development time to only a few years. We can't wait decades for fusion energy, since the climate crisis is imminent. Our unique design will provide the fast and cost effective solution.

How it Works

Operating Principle of the Fusion Device

The main component of the reactor is a fast rotating turbine. The turbine rotates inside a chamber filled with a Deuterium and Tritium gas. The tip of the turbine moves faster than the gas speed of sound. The high speed produces shockwaves in the gas. The shockwaves disperse and hit a cone like holes near the turbine to further compress the gas. The motor is a three phase motor similar to an electric vehicle motor like the one in a Tesla car.



Advantages

- The turbine can be in any size from 20 inch or 50cm to 30 feet or 10 meters. The power output of one turbine can vary from 10 MW to 500MW. It is possible to combine several turbines in one powerplant.
- The device is small in size and it can fit in buildings.
- There is no pollution from the device, it can be placed near cities.
- The device is cost effective in construction, maintenance and fuel.
- The device structure is simple, reliable, and easy to maintain without long downtime.
- The turbine can be switched on almost instantly and can replace gas turbine as backup for solar and wind power stations.
- A major component of the device is an electric motor identical to an electric vehicle motor, it is readily available and will shorten development time and reduce costs

Challenges

- **There are two obstacles to overcome to make this idea work:**
- **The first is to get the high temperature required for fusion. A preferred solution to that is to induce resonance in the gas by shaping the turbines and the surrounding walls.**
- **The second problem is overheating of the turbine and cone ring. This can be solved by water cooling system or liquid nitrogen cooling system, integrated in a mesh of pipes inside the cone ring and turbine.**