

Multiple Wave Oscillator

Features dual tunable spark gaps & powerful liquid filled Tesla Coil www.zephyrtechnology.com

Piston rod

made from stainless Steel from 10 pcs to 1Mio pcs www.Stecher.de

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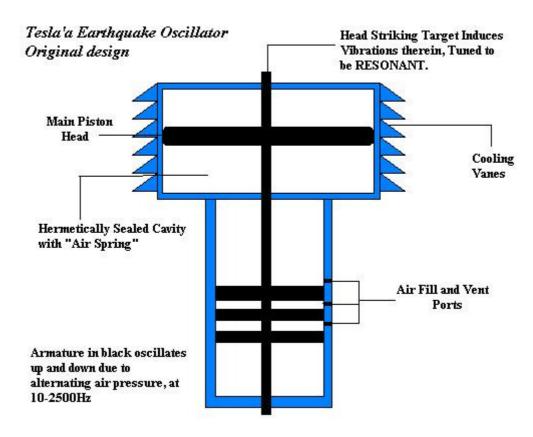
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The Tesla Oscillator

Nikola Tesla is primarily thought of as an electrical genius, but he also was responsible for a number of mechanical devices. One of the most notorious of these was his "Earthquake Machine" otherwise known as the Tesla Oscillator. The machine which Tesla tested was small, around seven inches long, and weighing only one or two pounds; something "you could put in your overcoat pocket". In 1898, Tesla's New York lab was nearly shaken to pieces with this ittle device, operated by only five pounds of air pressure acting against a special pneumatic piston device. The whole assembly was designed to be powered by steam pressure.

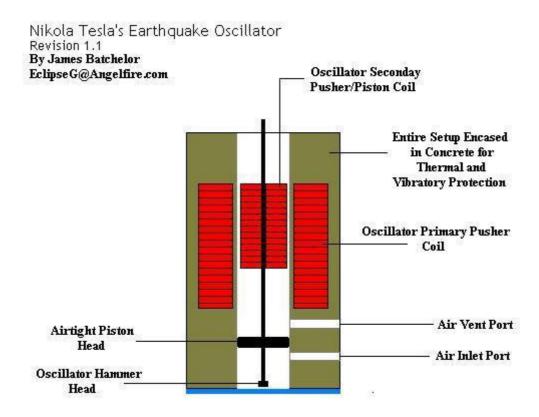
Tesla was experimenting with ways to transmit motive power *through the Earth!* Large versions of these oscillators, weighing perhaps 200 pounds, and being about three feet high could transmit usable motive power anywhere on te entire planet. As fantastic as it sounds, this device can also locate ships, submarines and buildings anywhere on a global scale. Tesla's device was purely mechnical, and is outlined below:



Steam would be forced into the oscillator, and exit through a series of ports, the net effect of which was to cause the armature to vibrate at high speed, within is casing. The casing was by necessity very strong, as temperatures due to pressure heating in the upper chamber exceeded 200 degrees, and the pressure reached 400psi. Other versions of the machine were created, designed to produce electrical power, both alternating and direct, (without the need for rectifiers).

The Plan

With this in mind, I began to think of a way in which I could build one of these oscillators more easily than with a steel pressure vessel. Since the air piston relies on compressed air to effect the oscillating motion, it seemed to me that another way of forcing the piston to move might be useful. I hit upon the idea of using a magnetic field to create part of the motion. Having variable frequency AC would be the perfect solution to this problem, allowing flawless tuning of the oscillation frequencies with a simple coil setup, without the need for air or steam at all. Eventually, the solution which best seemed to fit the job was the one below:



How it works is as follows. Compressed air entering the inlet port forces the piston head upwards. However, the piston shaft is impeded from moving upwards by the action of opposing magnetic fields between the two coils. The current in the coils can be varied to create a field of specific strength, and therefore amount of force required for the piston to rise. The field pushes down and the air pushes up. When the air push exceeds the field push, the piston will shoot upwards, but as soon as the piston head rises above the air vent port, the cavity will depressurise. When that happens, the field will slam the piston downwards, and the hammer head will strike the steel plate at the base. By varying the air pressure and magnetic field strength, any range of frequencies desired could be created.

Bringing the House Down!

Construction

I am presently considering constructing an oscillator to test, based upon my design on this page. The device is rather dangerous, so I will need to proceed with caution. If anyone has any suggestions of further improvements which could be made, please mail me.

