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**LETTER 01-13 "Liquid Piston Engine"**

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Kim, I am very aware of a liquid piston engine.

HOW DO YOU SUPPOSE THE ROCKING WATER PUMP WORKS???

It uses two liquid pistons that resonate against each other as their air bubbles are compressed.

A rotating liquid piston is brilliant!

The natural centrifuge will stabilize the piston as it oscillates, why?

The problem is caused by the wall of the cylinder the liquid piston is in.

If we stabilize the piston by rotation this turbulence will be reduced.

Another point. Rotate mercury or even a self-hardening plastic and you will get a "PERFECT" parabolic mirror.

Rotation of a liquid forms a natural parabolic surface!

You can rotate epoxy in a large dish and allow it to harden. It can then have mirror finish applied by metal vaporization and you can make a telescope mirror of any diameter.

A final point.

Liquid pistons that use water and alcohol can make a "CLOUD CHAMBER".

The device is filled with black ink in a large glass jar with a "TOILET PLUNGER" to force the water to compress air in the jar. Then you release the lever pushing the toilet plunger and the water and alcohol will form a small "CLOUD" inside the jar because of rapid expansion of the air bubble.

Done properly and you will capture a nuclear particle track! All because of the miracle of a liquid piston!