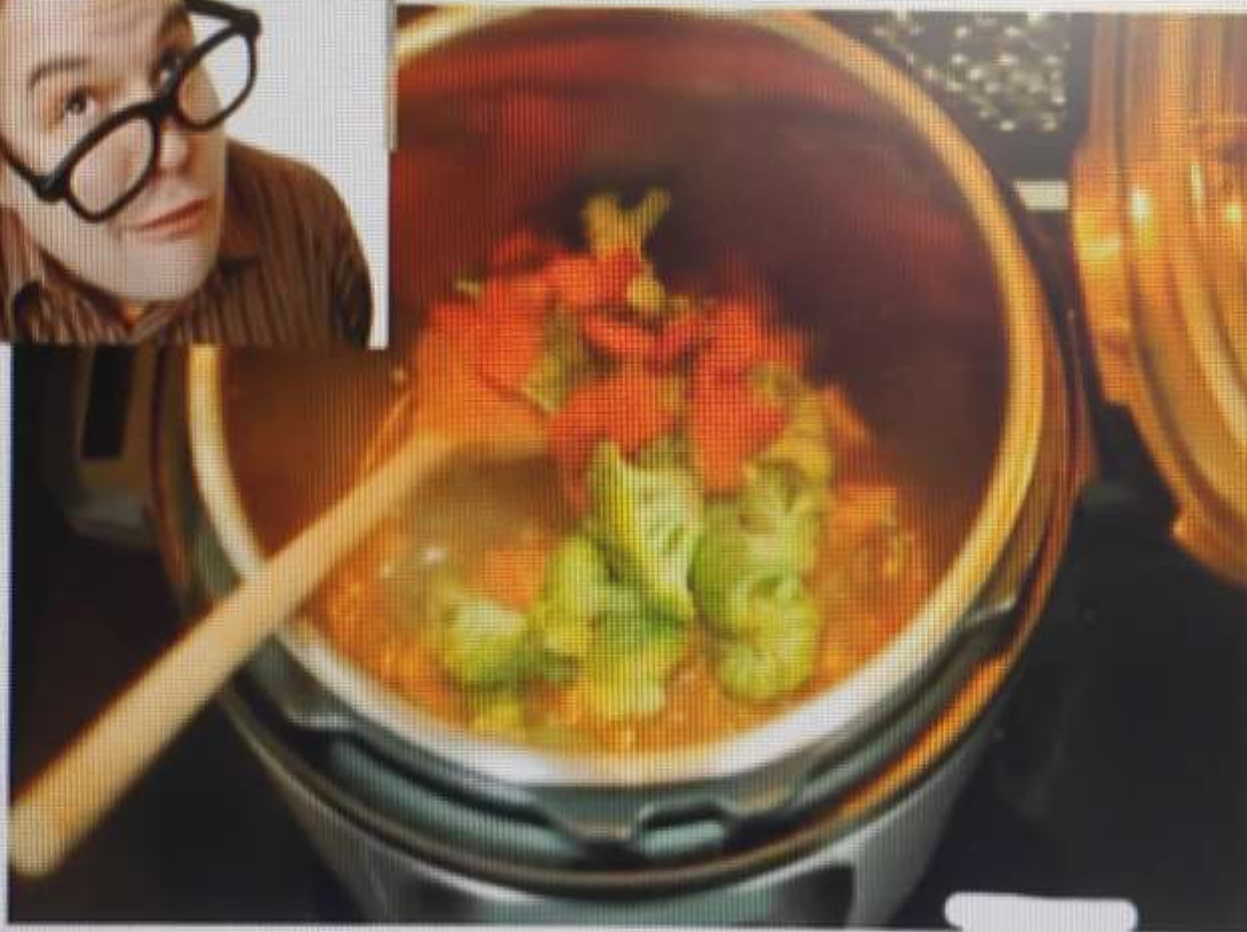


PPM-1

PERPETUAL – MOTION MACHINE 1

1. A process can not take place unless it satisfies both the First and Second Law of Thermodynamics
2. Any device that violates either law is called a perpetual-motion machine
3. A machine which will give continuous work w/o receiving any energy from other sources
4. It is impossible to construct PMM
5. A device that violates First law of Thermodynamics is called PMM1
6. It is impossible to construct a device, which produce work W/O consuming any form energy

PERPETUAL – MOTION MACHINE 1



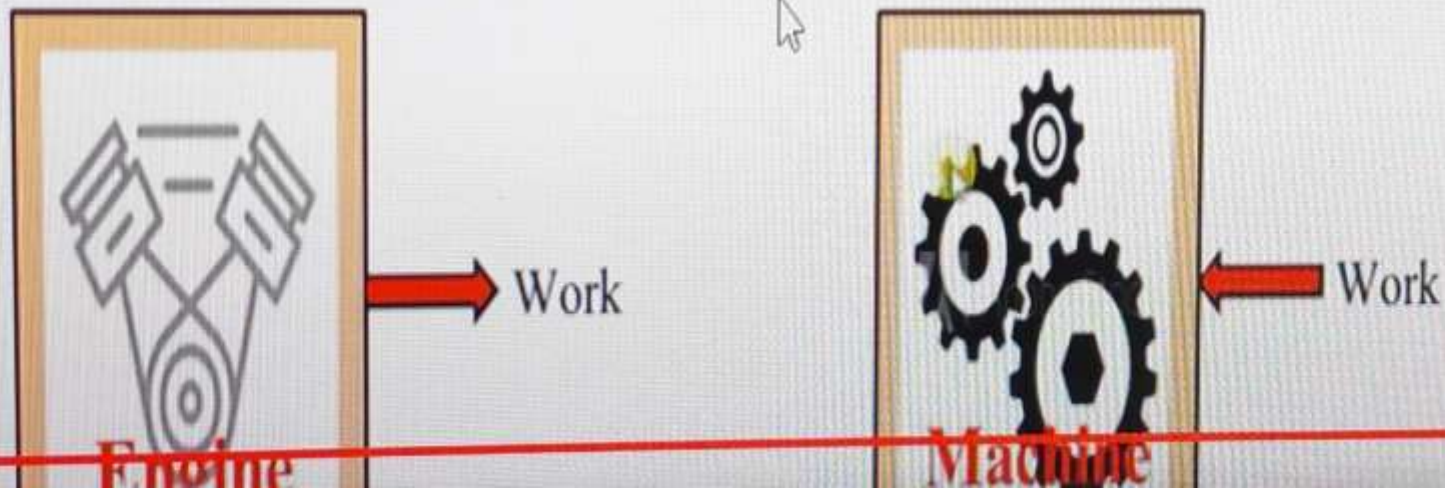
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PERPETUAL – MOTION MACHINE 1



Perpetual Motion Machine of the first kind - PMM 1

- Any device that violates either law is called a perpetual motion machine.
- A device that violates the first law of thermodynamics is called a perpetual motion machine of the first kind (PMM1).
- As shown in Fig.1 the machine or system continuously produces mechanical work without receiving any energy, which violates the first law of thermodynamics states the general principle of the conservation of energy as "energy is neither created nor destroyed, but only transformed from one form to another".
- The converse of PMM1 as shown in Fig. 2, a machine which would continuously consume work without producing any form of energy. This is also violates first law of thermodynamics.



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