

Light Cannot Push A Mirror, But... Light Can Create Movement

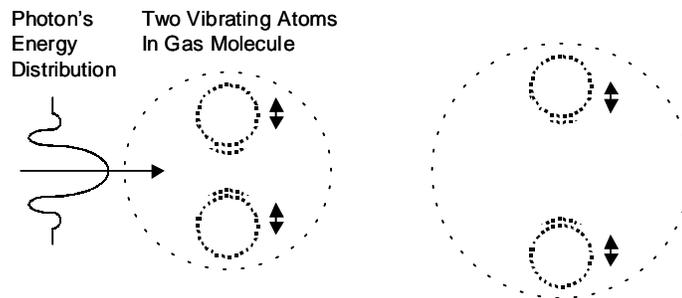
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For close to one hundred years some scientists think that light carries momentum and light is supposed to be able to push a mirror. If you know that a perpetual motion machine cannot be had, light cannot exert pressure on mirror.

If a beam of laser light bounces between parallel mirrors the classical interpretation of light calls for pressure to be created at both mirrors. Work could then be extracted from moving mirrors. With the second bounce of the beam the realization of classically presumed energy is over unity and any bounce after that should yield free energy. Not so. Light does not carry real momentum.

How does light turn into heat and increase pressure of gas through absorption, for example? Photon's energy is an even function – that is, photon's energy is always evenly distributed about the axis of propagation. Directed between two atoms photon's energy is evenly distributed to both atoms such that the atoms bounce away from each other. Because both atoms receive the same amount of energy that is in opposite direction the momentum is created in the framework of momentum conservation. Photon ceases to exist (photon is absorbed) as photon's energy is converted to moving energy of two atoms.



Photon Absorbed in Gas Molecule Increases Average Atomic Separation

French scientist Ampere first discovered that all gas molecules are composed of two atoms. Different atomic separation of different gases should absorb photons of different wavelength, which is indeed the case and gases are presently identified by the photonic wavelength(s) they absorb. Photons do not collide with atoms or molecules and do not transfer energy as classical colliding balls because photons do not have real momentum.

Photonic absorption effect can be reversed. By mechanically compressing gas, heat (low frequency) photons are released by molecules.

The fact that photons of light do not carry real momentum also means that all projects that rely on photonic pressure will not work. Adjustments to mirrors by lasers in space, solar sailing, and numerous other projects are impossible. Present gravitation theories also rely on the presumption that light has real momentum and light is subject to gravity. Light or light's path is not subject to gravity.

“Take advantage of the truth”