

Human Powered Medical Device and Water Sterilizer

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Technology description

The present invention relates to methods and devices for sterilizing medical instruments and water for human consumption. Pathogens either on medical instruments or in small water droplets (mist) can be killed by abrupt heat transfer from the surrounding air. Our invention permits very rapid heating of the air using only human energy in a very efficient energy conversion process. The present invention would allow for a very low-cost (<\$5), small, light-weight device that doesn't require any form of electrical or chemical power to operate. The user of this device would load the medical instruments or water into the device, and quickly depress a piston. The operation would be fast, sterilizing the payload in a fraction of a second!

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