ABSTRACT

DEVICE FOR HEATING OR COOLING AIR

This invention relates to a device for heating or cooling air. A device for heating or cooling air, comprising a first thermoelectric module for heating or cooling the air in response to a first electric current, wherein the first thermoelectric module is a semiconductor device that operates on the Peltier effect using an array of p-type and n-type semiconductor elements; a second thermoelectric module for heating or cooling the air in response to a second electric current, wherein the second thermoelectric module is a semiconductor device that operates on the Peltier effect using an array of p-type and n-type semiconductor elements; a heat sink sandwiched between the thermoelectric modules; a controller that activates the first thermoelectric module, thereby heating or cooling the second thermoelectric module by thermal conduction through the heat sink, and then activates the second thermoelectric module a predetermined time period after activating the first thermoelectric module; and a blower that dispenses the air that is heated or cooled by the thermoelectric modules.

(Figure 1)