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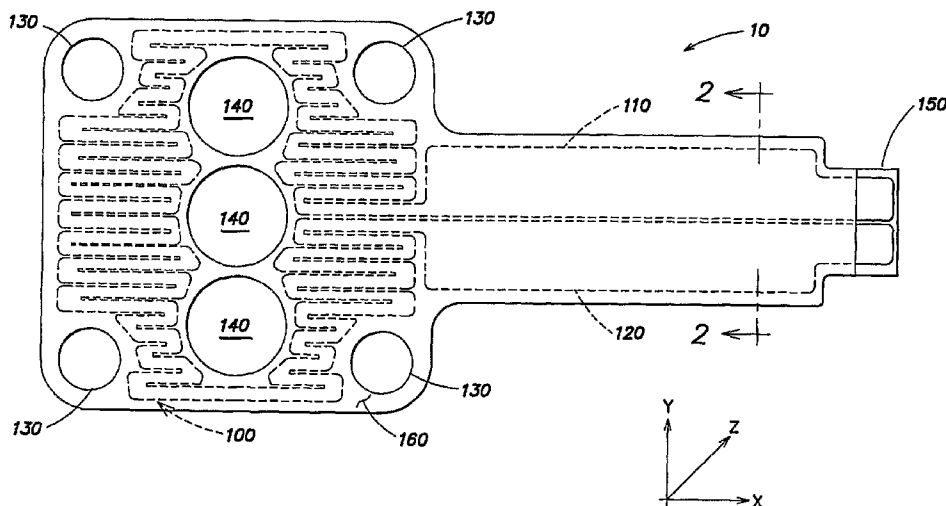
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(54) Title: SURFACE MOUNT HEATER



(57) Abstract: A heater that includes a substantially flat layer of electrical resistance material having a first end and a second end, a first electrical conductor electrically connected to the first end of the substantially flat layer of electrical resistance material, a second electrical conductor electrically connected to the second end of the substantially flat layer of electrical resistance material, and an electrically insulating material surrounding the substantially flat layer of electrical resistance material and electrically insulating the first end of the substantially flat layer of electrical resistance material from the second end of the substantially flat layer of electrical resistance material. The heater may be mounted to a surface of a fluid component and used to heat the fluid component, and where the heater includes an aperture that extends through the electrically insulating material, the heater may be placed between a fluid component and a fluid substrate and used to heat both.

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