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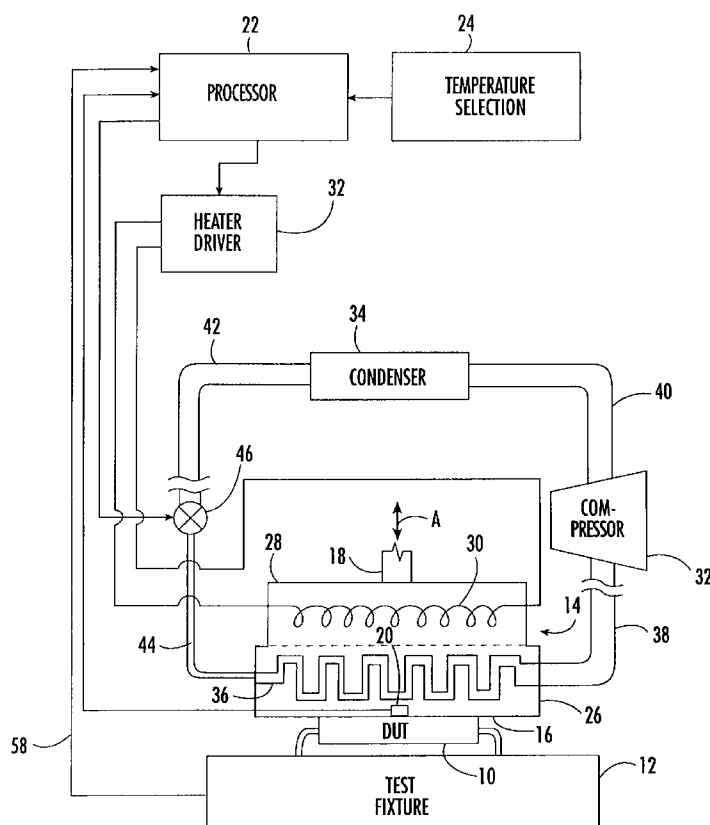
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(54) Title: APPARATUS AND METHOD FOR CONTROLLING THE TEMPERATURE OF AN ELECTRONIC DEVICE UN-
DER TEST



(57) Abstract: An apparatus for controlling the temperature of a electronic device (10) under test includes a thermal head (14) having a temperature controlled surface (16) for making thermal contact with the electronic device (10). The thermal head (14) defines a flow channel (36) for passage of a refrigerant fluid so as to cause transfer of thermal energy between the electronic device (10) and the thermal head (14). A refrigeration system is connected in fluid communication with the flow channel (36) of the thermal head (14) to supply refrigerant fluid thereto. The refrigeration system includes a metering valve (46) operative to regulate introduction of the refrigerant fluid into the thermal head (14). A controller (22) is operative to control the metering valve (46) for maintaining a predetermined temperature at the temperature controlled surface (16).

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