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(54) Title: THERMAL HEAD FOR DEVICE UNDER TEST AND METHOD FOR CONTROLLING THE TEMPERATURE OF DEVICE UNDER TEST

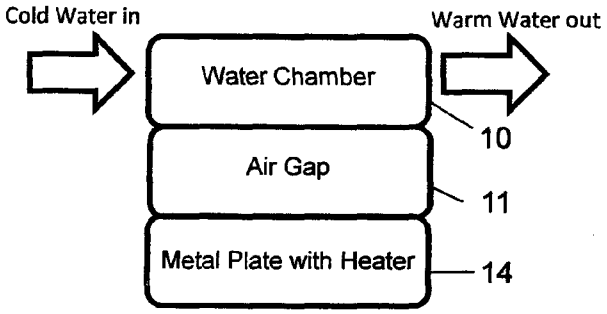


FIG 3

(57) Abstract: A thermal head for device under test (DUT) having a gimbal fixture and a protective casing and an air chamber having an air inlet and a plurality of O-ring grooves to form a pneumatic control mechanism, comprising (a) a cooling chamber having at least one inlet and at least one outlet for the flow of a cooling fluid to provide a cooling temperature when device comes into contact with the thermal head; (b) a metal plate being formed below the cooling chamber, plate touches the surface of the DUT; (c) an air gap formed between the cooling chamber and the metal plate, size of the gap depends on the distance between the cooling chamber and the metal plate; and (d) a pair of coil spring mechanism disposed in between the base of the metal plate and a jacket covered the cooling chamber at the opposite edges thereof.

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