

ABSTRACT

Method for Heat Transfer and Device Therefor

5 A heat transfer device comprising at least an aggregate of fibres or
sheet of fibres (60) with internal passages and holes capable of capillary
transport of liquids capable of capillary convection of coolant fluid from a heat
source region (54) to heat dissipation region (56) and *vice versa*. A supply of
coolant fluid in sufficient amount is provided to be absorbed or contained by
10 said fibres or sheet of fibres (60) with internal passages and holes capable of
capillary transport of liquids. A pressure tension member (70) comprising a
strong yet resilient structure placed within said confined space and exerting
pressure on said aggregate of fibres or sheet of fibres (60) with internal
passages and holes capable of capillary transport of liquids against said heat
15 source region (54) and/or heat dissipation region (57). A plurality of
undulations are provided on said pressure tension member, including laterally
extending ribs or protuberance (84) and protrusions (82) to accentuate the
pressure exerted by the pressure tension member (70). A casing then
encloses hermetically the above components.

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FIGURE 6a accompanies the abstract.