

PASSIVE LIQUID COOLING SYSTEM, BOARD, AND ELECTRONIC DEVICE

ABSTRACT

Embodiments of the present disclosure provide a passive liquid cooling system, a board, and an electronic device. The passive liquid cooling system is an indirect-contact heat dissipation solution that does not rely on a circulation pump, and in addition, is also a solution that performs heat dissipation through two-layer (or two-stage) liquid phase transition. Because the system does not rely on the circulation pump, various technical problems caused by the circulation pump can be resolved. For example, the entire passive liquid cooling system is not limited by a service life of the circulation pump, eliminating a need to perform operation and maintenance on the circulation pump. In addition, the two-layer liquid phase transition is used for heat dissipation, featuring high heat dissipation performance, so that a heat dissipation requirement of a high-power device can be satisfied.

Fig 4.