

ABSTRACT

ELECTRONIC DEVICE WITH COOLING FAN

In an exemplary electronic device with a cooling fan, a fan assembly is attached to a keyboard assembly of the electronic device. The fan assembly includes an impeller at least partially inside a fan enclosure. The fan enclosure has, on a surface, an inlet opening and an external protrusion. The electronic device further includes a bottom case. The fan assembly is positioned between the keyboard assembly and the bottom case and oriented such that the inlet opening and the external protrusion face the bottom case. The external protrusion maintains a passage between the fan enclosure and the bottom case that allows air to enter the inlet opening and also resists interference between the rotating impeller and the stationary bottom case.

[Figure 2B]