

Title (en)
FAN AND MOBILE TERMINAL

Title (de)
LÜFTER UND MOBILES ENDGERÄT

Title (fr)
VENTILATEUR ET TERMINAL MOBILE

Publication
EP 3736449 B1 20230405 (EN)

Application
EP 18903083 A 20180202

Priority
CN 2018075171 W 20180202

Abstract (en)
[origin: EP3736449A1] This application provides a fan and a mobile terminal. The fan includes a housing and a centrifugal impeller disposed inside the housing and rotatable relative to the housing, where the centrifugal impeller includes a plurality of blades, at least one of the plurality of blades is provided with a plurality of grooves arranged along a radial direction of the blade, and the grooves are inclined at an angle relative to a normal direction of a radial tangent of the blade. In use, movement of an airflow relative to the blade is a combination of velocity along a tangential direction of the blade and velocity relative to a radius of the centrifugal impeller, that is, final relative velocity is not parallel to the normal direction (a direction perpendicular to the radial tangent of the blade) of the blade. Therefore, to enable air to flow through the grooves more smoothly, the grooves disposed in embodiments of this application are inclined relative to the radial direction, so that a length direction of the grooves is the same as a direction of the relative velocity as much as possible, thereby improving passage of the air through the grooves, further improving a passing effect, and reducing noise caused by the fan.

IPC 8 full level
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CPC (source: EP)
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