Claims

1. A protection device for a mobile terminal, comprising:

an upper housing body, the upper housing body having a first hollow portion at a middle portion thereof, and the upper housing body being provided with a combination part perpendicular to a lower surface of the upper housing body at a bottom thereof;

a lower housing body comprising an upper side surrounding edge, a lower side surrounding edge, a left side surrounding edge and a right side surrounding edge which are perpendicular to a lower surface of the lower housing body on an upper side, a lower side, a left side and a right side thereof respectively; wherein

a groove for clamping with the upper housing body is opened on an upper end of each of the upper side surrounding edge, the left side surrounding edge and the right side surrounding edge; and

a gap corresponding to the combination part is opened on the lower side surrounding edge such that the combination part is enabled to be integrated with the lower side surrounding edge through the gap, the lower housing body having a second hollow portion on a lower surface thereof, and an external device being detachably disposed in the second hollow portion;

and

a first clamping column and a second clamping column that are provided on a left side and a right side of the second hollow portion respectively;

wherein a first clamping groove and a second clamping groove corresponding to the first clamping column and the second clamping column respectively are opened on a left side and a right side of the external device;

the first clamping column and the second clamping column respectively can slide into the first clamping groove and the second clamping groove such that the external device is integrated with the second hollow portion; and

the first clamping column and the second clamping column respectively can slide out of the first clamping groove and the second clamping groove such that the external device is detached from the second hollow portion.

2. The protection device for a mobile terminal as claimed in claim 1, wherein

a first communication interface is provided on an upper side of the external device and

a second communication interface corresponding to the first communication device

being provided on an upper side of the second hollow portion, the first clamping column and the second clamping column being configured to respectively slide into the first clamping groove and the second clamping groove such that the upper side of the external device is integrated with the upper side of the second hollow portion, the first communication interface is connected with the second communication interface.

3. The protection device for a mobile terminal as claimed in claim 1, wherein
a plurality of first connection points are provided on an upper side of the external device, and a plurality of second connection points respectively corresponding to the plurality of first connection points are provided on an upper side of the second hollow portion,
wherein the first clamping column and the second clamping column are configured to respectively slide into the first clamping groove and the second clamping groove such that the upper side of the external device is integrated with the upper side of the second hollow portion, and the first connection points are connected with the second connection points.

4. The protection device for a mobile terminal as claimed in anyone of claims 1-4, wherein
a clamping point is provided on each of the first clamping column and the second clamping column, and
a clamping site corresponding to the clamping point is provided on each of the first clamping groove and the second clamping groove.

5. The protection device for a mobile terminal as claimed in anyone of claims 1-4, wherein
the external device comprises at least one of a buckle, a mobile power source, a wireless charging device, a camera lens, a sounding device, an electronic larynx, a storage device, a data transmission device and a light-emitting device.

6. The protection device for a mobile terminal as claimed in anyone of claims 1-4, wherein
a connection device is provided on a back side of the combination part;

a male communication interface corresponding to a communication interface of the ~~external device~~mobile terminal ~~are~~is provided on an upper side of the connection device, and

a female communication interface ~~are~~is provided on a front side of the combination part, the female communication interface being configured to communicate with the male communication interface by means of the connection device.

7. The protection device for a mobile terminal as claimed in claim 6, wherein

a fingerprint recognition device is disposed on a part of the lower housing body below the second hollow portion.

8. The protection device for a mobile terminal as claimed in claim 7, wherein

multiple contact points are provided on a lower surface of the fingerprint recognition device, and

multiple coupling points corresponding to the multiple contact points are provided on a lower surface of the connection device.

9. The protection device for a mobile terminal as claimed in claim 6, wherein

a main clamping device for clamping the upper housing body with the lower housing body is provided on a back side of the lower side surrounding edge of the lower housing body, and

an auxiliary clamping device for assisting clamping of the main clamping device corresponding to the main clamping device is provided on the connection device on the combination part of the upper housing body.

10. The protection device for a mobile terminal as claimed in claim 11, wherein

the main clamping device comprises:

a control switch embedded in the lower side surrounding edge;

an elastic mechanism disposed on the lower surface of the lower housing body;

a first moving rod disposed at an inner side of the lower side surrounding edge, one end of which is connected with the control switch, and the other end of which is connected with the elastic mechanism;

a clamping rod; and

a second moving rod, one end of which is connected with the elastic mechanism, and the other end of which is connected with the clamping rod;

wherein the auxiliary clamping device specially comprises a recess corresponding to the clamping rod for clamping with the clamping rod.

11. The protection device for a mobile terminal as claimed in claim 4, wherein

the material of the upper housing body is plastic, silica gel or metal, and the material of the lower housing body is plastic, silica gel or metal.