CLAIMS

1. A wearable device, comprising: a wearable assembly and a display device detachably mounted on the wearable assembly, and the display device comprises:

a first body (211), having a connecting end;

a connecting means (213);

a second body (212), which is rotatably connected to the connecting end of the first body (211) by the connecting means (213), and can be folded inwardly toward the first body to overlap with the first body, and after the second body is detached from the wearing component, the second body can be folded outwards away from the first body to unfold relative to each other;

a flexible display device, which is covered on the first body and the second body, and can be folded inward or unfolded outward correspondingly with mutual rotation between the first body and the second body;

wherein the connecting means (213) for realizing mutual folding of the first body (211) and the second body (212), and the connecting end of the first body (211) is rotatably connected to a connecting end of the second body (212) through the connecting means (213), and the flexible display device is located outside the connecting means (213);

a lock mechanism, and the wearable assembly comprises:

a watch band; and

a bracket connected to the watch band, and the second body is detachably connected to the bracket through the lock mechanism;

the lock mechanism comprises:

a lock button having one end inserted into the bracket;

a first return spring, having one end connected to the lock button and the other end connected to the bracket;

a lock buckle, both ends of which are respectively inserted into the bracket and the second body and abut against an end of the lock button passing through the bracket; and,

a second return spring, having one end connected with the lock buckle and the other end connected with the second body.

2. The wearable device according to claim 1, wherein, an opening/closing angle between the first body and the second body is 0° to 180°.

3. The wearable device according to claim 1, wherein, the connecting means comprises one or more of a folding sheet and a folding tube that can be folded.

4. The wearable device according to claim 1, wherein, the connecting means comprises a rotating shaft.

5. The wearable device according to claim 4, wherein, the rotating shaft is a damped rotating shaft.

6. The wearable device according to claim 1, wherein the flexible display device is fixed on the display device by waterproof double-sided tape or glue.

7. The wearable device according to claim 1, wherein, the bracket defines a groove for receiving the display device after being folded.

8. The wearable device according to claim 7, wherein, two opposite ends of the bracket are respectively provided with one lock mechanism, and the two ends of the lock mechanism are respectively located in the bracket and the second body.

9. The wearable device according to claim 1, wherein, the lock button comprises an abutment portion and an insertion portion that are connected in turn, and the bracket defines an abutment groove and an insertion groove that are communicated in turn, the insertion portion is inserted into the insertion groove to abut against an end of the lock buckle, and an end of the abutment portion abuts against a groove wall of the abutment groove to limit a moving position of the lock buttonwhen it is pressed.

10. The wearable device according to claim 9, wherein, one end of the first return spring is inserted into the abutment portion, the other end of the first return spring abuts against the groove wall of the abutment groove, and a through hole is defined in the abutment portion, and a first connecting groove communicating with the abutment groove is defined in the bracket;

the lock mechanism further comprises a limiter, the limiter passes through the first connecting groove and the through hole in turn, and both ends of the limiter are located in the first connecting groove, a middle part of the limiter is located in the through hole, and two opposite sides of the middle part of the limiter abut against a wall of the through hole to limit a rebounding position of the lock button.

11. The wearable device according to claim 10, wherein, the limiter is a vertically positioned elastic sheet, the elastic sheet is in an "S" shape, a middle part of the elastic sheet is located in the through hole of the abutment portion, both ends of the elastic sheet are located in the first connecting groove, and both sides of the elastic sheet abut against the through hole.

12. The wearable device according to claim 10, wherein, the lock buckle comprises a connecting portion and a moving portion connected in turn, and an end of the connecting portion away from the moving portion is inserted into the insertion groove to abut against the insertion portion, the second body defines a second connecting groove and a receiving groove communicated in turn, and two ends of the second return spring are respectively connected with the connecting portion and a groove wall of the second connecting groove.

13. The wearable device according to claim 12, wherein, both ends of the second return spring respectively abut against the connecting portion and the groove wall of the second connecting groove, and the lock mechanism further comprises a non-enclosed clamping member, and the clamping member is sleeved on an end of the moving portion away from the connecting portion.

14. The wearable device according to claim 13, wherein, a card slot is defined at a position where the moving portion is connected to the clamping member, and the clamping member is clamped in the card slot.