CLAIMS

1. A wearable device, comprising:

a wearable assembly (1); and

a display device (2) detachably mounted on the wearable assembly (1); and the display device (2) comprises:

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

a second body (212), which is rotatably connected to the connecting end of the first body (211), and can be folded inwardly toward the first body (211) to overlap with the first body (211), and after the second body (212) is detached from the wearable assembly (1), the second body (212) can be folded outwards away from the first body (211) to unfold relative to each other; and

a flexible display device (22), which is covered on the first body (211) and the second body (212), and can be folded inward or unfolded outward correspondingly with mutual rotation between the first body (211) and the second body (212);

characterized in that the wearable device further comprises a lock mechanism (3), wherein:

the wearable assembly (1) comprises:

a watch band (11); and

a bracket (12) connected to the watch band (11), and the second body (212) is detachably connected to the bracket (12) through the lock mechanism (3);

the lock mechanism (3) comprises:

a lock button (31) having one end inserted into the bracket (12);

a lock buckle (33), both ends of which are respectively inserted into the bracket (12) and the second body (212) and abut against the one end of the lock button (31) passing through the bracket (12);

a first return spring (32), having one end connected to a side of the lock button (31) facing the lock buckle (33) and the other end connected to the bracket (12); and

a second return spring (34), having one end connected with the lock buckle (33) and the other end connected with the second body (212), wherein when the other end of the lock button (31) is pressed, the

lock button (31) pushes the lock buckle (33) to be separated from the bracket (12), so that the first return spring (32) and the second return spring (34) are respectively in a compressed state.

2. The wearable device according to claim 1, wherein, the wearable device further comprises a 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 connectedto a connecting end of the second body (212) through the connecting means (213), and the flexible display device is (22) located outside the connecting means (213).

3. The wearable device according to claim 2, wherein, an opening/closing angle between the first body (211) and the second body (212) is 0° to 180°.

4. The wearable device according to claim 2, wherein, the connecting means (213) comprises one or more of a folding sheet and a folding tube that can be folded.

5. The wearable device according to claim 2, wherein, the connecting means (213) comprises a rotating shaft; wherein, the rotating shaft is a damped rotating shaft.

6. The wearable device according to claim 1, wherein, the bracket (12) defines a groove (124) for receiving the display device after being folded.

7. The wearable device according to claim 6, wherein, two opposite ends of the bracket (12) are respectively provided with one lock mechanism (3) detachably, and the two ends of the lock mechanism are respectively located in the bracket (12) and the second body (212).

8. The wearable device according to claim 1, wherein, the lock button (31) comprises an abutment portion (311) and an insertion portion (312) that are connected in turn, and the bracket (12) defines an abutment groove (121) and an insertion groove (122) that are communicated in turn, the insertion portion (312) is inserted into the insertion groove (122) to abut against an end of the lock buckle (33), and an end of the abutment portion (311) abuts against a groove wall of the abutment groove (121) to limit a moving position of the lock button (31) when it is pressed.

9. The wearable device according to claim 8, wherein, one end of the first return spring (32) is inserted into the abutment portion (311), the other end of the first return spring (32) abuts against the groove wall of the abutment groove (121), and a through hole (3111) is defined in the abutment portion (311), and a first connecting groove (123) communicating with the abutment groove (121) is defined in the bracket (12);.the lock mechanism (3) further comprises a limiter (35), the limiter (35) passes through the first connecting groove (123) and the through hole (3111) in turn, and both ends of the limiter (35) are located in the first connecting groove (123), a middle part of the limiter (35) is located in the through hole (3111), and two opposite sides of the middle part of the limiter (35) abut against a wall of the through hole (3111) to limit a rebounding position of the lock button (31).

10. The wearable device according to claim 9, wherein, the limiter (35) is a vertically positioned elastic sheet, the elastic sheet is in an "S" shape.

11. The wearable device according to claim 9, wherein, the lock buckle (33) comprises a connecting portion (331) and a moving portion (332) connected in turn, and an end of the connecting portion (331) away from the moving portion (332) is inserted into the insertion groove(122) to abut against the insertion portion (312), the second body (212) defines a second connecting groove (2121) and a receiving groove (2122) communicated in turn, and two ends of the second return spring (34) are respectively connected with the connecting portion (331) and a groove wall of the second connecting groove (2121).

12. The wearable device according to claim 11, wherein, both ends of the second return spring (34) respectively abut against the connecting portion (331) and the groove wall of the second connecting groove (2121), and the lock mechanism (3) further comprises a non-enclosed clamping member (36), and the clamping member (36) is sleeved on an end of the moving portion (332) away from the connecting portion (331).

13. The wearable device according to claim 12, wherein, a card slot is defined at a position where the moving portion (332) is connected to the clamping member (36), and the clamping member (36) is clamped in the card slot.