on a frame, wherein the frame is equipped with a first lock mechanism, ~~and~~ a second lock mechanism, and a selecting member. The first unlock module is movably disposed on the frame and connected to the first lock mechanism, the first unlock module comprising a first sliding member slidably disposed on the frame. The second unlock module is movably disposed on the frame and connected to the second lock mechanism, the second unlock module comprising a second sliding member slidably disposed on the frame. The selecting member is movably disposed on the frame, the first sliding member and the second sliding member moving as the selecting member moves. The at least one operating member moves to drive the first unlock module to move to unlock the first lock mechanism or drive the second unlock module to move to unlock the second lock mechanism.

As will be seen more clearly from the detailed description following below, the claimed stroller includes a frame, a wheel socket, a first lock mechanism, a second lock mechanism and the aforesaid unlock device. The wheel socket is rotatably disposed on a leg of the frame. The first lock mechanism is disposed on the frame and configured to fold the frame. The second lock mechanism is disposed on the frame and configured to lock the wheel socket. The unlock device is configured to unlock the first lock mechanism and the second lock mechanism.

Brief Description of the Drawings

In the following, the invention is further illustrated by way of example, taking reference to the accompanying drawings thereof:

FIG. 1 is a perspective view illustrating a stroller of the invention,

FIG. 2 is a perspective view illustrating an unlock device of the invention,

FIG. 3 is a sectional view illustrating an unlock device of the invention connected to a first lock mechanism and a second lock mechanism,

FIG. 4 is a sectional view illustrating a selecting member of an unlock device of the invention sliding rightward,

FIG. 5 is a sectional view illustrating an operating member shown in FIG. 4 being pressed upward,

FIG. 6 is a sectional view illustrating a selecting member of an unlock device of the invention sliding leftward,

FIG. 7 is a sectional view illustrating an operating member shown in FIG. 6 being pressed upward,

FIG. 8 is a schematic view illustrating a second lock mechanism of the invention,

FIG. 9 is a schematic view illustrating a first sliding member and a second sliding member of the invention,

Claims

1. An unlock device (1) characterized by the unlock device (1) comprising:

at least one operating member (11, 111, 112) movably disposed on a frame (2), the frame (2) being equipped with a first lock mechanism (4) and a second lock mechanism (5);

a first unlock module (13) movably disposed on the frame (2) and connected to the first lock mechanism (4), the first unlock module (13) comprising a first sliding member (132) slidably disposed on the frame (2); ~~and~~

a second unlock module (14) movably disposed on the frame (2) and connected to the second lock mechanism (5), the second unlock module (14) comprising a second sliding member (142) slidably disposed on the frame (2); and

a selecting member (12) movably disposed on the frame (2), the first sliding member and the second sliding member moving as the selecting member moves;

wherein the at least one operating member (11, 111, 112) moves to drive the first unlock module (13) to move to unlock the first lock mechanism (4) or drive the second unlock module (14) to move to unlock the second lock mechanism (5).

2. The unlock device (1) of claim 1 ~~further characterized in that the unlock device (1) further comprises a selecting member (12) movably disposed on the frame (2)~~, wherein the selecting member (12) moves between a first position and a second position with respect to the frame (2); when the selecting member (12) is located at the first position, the at least one operating member (11) slides to drive the first unlock module (13) to move to unlock the first lock mechanism (4); and when the selecting member (12) is located at the second position, the at least one operating member (11) slides to drive the second unlock module (14) to move to unlock the second lock mechanism (5).

3. The unlock device (1) of claim 2, wherein ~~further characterized in that the first unlock module (13) comprises a first sliding member (132) slidably disposed on the frame (2), the second unlock module (14) comprises a second sliding member (142) slidably disposed on the frame (2), and~~ sliding directions of the first and second sliding members (132, 142) are identical to a sliding direction of the at least one operating member (11).

4. The unlock device (1) of claim 3 further characterized in that the first unlock module (13) further comprises a first rotating member (131) pivotally connected to the frame (2), the second unlock module (14) further comprises a second rotating member (141) pivotally connected to the frame (2), and the first and second sliding members (132, 142) are configured to drive the first and second rotating members (131, 141) to rotate, respectively.

5. The unlock device (1) of claim 4 further characterized in that the first rotating member (131) has a first connecting member (131b), the first connecting member (131b) is eccentric with respect to a rotation center of the first rotating member (131) and connected to the first lock mechanism (4), the second rotating member (141) has a second connecting member (141b), and the second connecting member (141b) is eccentric with respect to a rotation center of the second rotating member (141) and connected to the second lock mechanism (5).

6. The unlock device (1) of claim 3 further characterized in that the selecting member (12) has a first receiving hole (121) and a second receiving hole (122), an end of the first sliding member (132) is slidably inserted into the first receiving hole (121), and an end of the second sliding member (142) is slidably inserted into the second receiving hole (122).

7. The unlock device (1) of claim 3 further characterized in that the first sliding member (132) comprises a first sliding portion (132b), a first driving portion (132c) and a first restricting portion (132d), the first sliding portion (132b) is slidably inserted into the selecting member (12), the first driving portion (132c) is connected to the first rotating member (131), the first restricting portion (132d) is disposed at a side of the first driving portion (132c), the second sliding member (142) comprises a second sliding portion (142b), a second driving portion (142c) and a second restricting portion (142d), the second sliding portion (142b) is slidably inserted into the selecting member (12), the second driving portion (142c) is connected to the second rotating member (141), the second restricting portion (142d) is disposed at a side of the second driving portion (142c).

8. The unlock device (1) of claim 3 further characterized in that a first accommodating space (15) is formed between the first sliding member (132) and the at least one operating member (11) or between the first sliding member (132) and the selecting member (12), and a second accommodating space (16) is formed between the second sliding member (142) and the at least one operating member (11) or between the second sliding member (142) and the selecting member (12).

9. The unlock device (1) of claim 2 further characterized in that the frame (2) has a protruding block (211), an end of an elastic member (17) is sleeved on the protruding block (211) and abuts against the frame (2), and another end of the elastic member (17) abuts against the selecting member (12).

10. The unlock device (1) of claim 1 further characterized in that the at least one operating member comprises a first operating member (111) and a second operating member (112), the first operating member (111) slides to drive the first unlock module (13) to move to unlock the first lock mechanism (4), and the second operating member (112) slides to drive the second unlock module (14) to move to unlock the second lock mechanism (5).

11. The unlock device (1) of claim 1 further characterized in that the unlock device (1) further comprises a retaining mechanism (6) disposed on the at least one operating member (11, 112), the retaining mechanism (6) retains the at least one operating member (11, 112) at an unlock position when the at least one operating member (11, 112) slides to unlock one of the first lock mechanism (4) and the second lock mechanism (5), the retaining mechanism (6) releases the at least one operating member (11, 112) when the at least one operating member (11, 112) is actuated from the unlock position.

12. The unlock device (1) of claim 11 further characterized in that the retaining mechanism (6) comprises a first engaging member (61) and a second engaging member (62), the first engaging member (61) is fixed on the at least one operating member (11, 112), the second engaging member (62) is connected to the frame (2), the first engaging member (61) has a first inclined groove (611), a second inclined groove (612), a third inclined groove (613) and a fourth inclined groove (614) connected to each other, an engaging portion (621) of the second engaging member (62) moves along the first and second inclined grooves (611, 612) and then engages in a recess (615) between the second and

third inclined grooves (612, 613) to retain the at least one operating member (11, 112) at the unlock position, and the engaging portion (621) of the second engaging member (62) disengages from the recess (615) and moves along the third and fourth inclined grooves (613, 614) to release the at least one operating member (11, 112).

13. The unlock device (1) of claim 11 further characterized in that the retaining mechanism (7) is pivotally connected to the at least one operating member (11) and comprises an engaging portion (71) and an elastic portion (72), the frame (2) has an engaging hole (24), the engaging portion (71) abuts against the frame (2) and the elastic portion (72) is compressed by the frame (2) before the at least one operating member (11) slides to unlock the second lock mechanism (5), and the elastic portion (72) drives the retaining mechanism (7) to rotate and the engaging portion (71) engages in the engaging hole (24) when the at least one operating member (11) slides to unlock the second lock mechanism (5).

14. A stroller (100) characterized by the stroller (100) comprising:
    a frame (2);
    a wheel socket (3) rotatably disposed on a leg (23) of the frame (2);
    a first lock mechanism (4) disposed on the frame (2) and configured to fold the frame (2);
    a second lock mechanism (5) disposed on the frame (2) and configured to lock the wheel socket (3); and
    the unlock device (1) of claim 1 configured to unlock the first lock mechanism (4) and the second lock mechanism (5).

15. The stroller (100) of claim 14 further characterized in that the unlock device (1) is disposed on a handle (21) of the frame (2).