CLAIMS

What is claimed is:

1. A card holder (20), configured to install a data card (300), comprising:

a card tray (21) defining a card slot (211) and a sliding groove (212) in communication with the card slot (211), the card slot (211) being configured to receive the data card (300);

a sliding block (22) capable of sliding along the sliding groove (212); and

an elastic element (23) coupled to the sliding block (22), fixed to the card tray (21), and configured to press the sliding block (22) to make the sliding block (22) capable of abutting against the data card (300) when the elastic element (23) is in a deformation state,

wherein the card tray (21) further comprises a first surface (217) and a second surface (218) opposite the first surface (217), the card slot (211) is defined in the first surface (217) and the sliding groove (212) is defined in the first surface (217),

wherein the card tray (21) further comprises a fixing groove (219) defined in the first surface (217), the fixing groove (219) is in communication with the sliding groove (212), and the elastic element (23) is received in the fixing groove (219); the fixing groove (219) comprises a first wall (2191) adjacent to the card slot (211) and a second wall (2192) opposite the first wall (2191), and the second wall (2192) gradually extends away from the card slot (211) along a direction from two ends of the fixing groove (219) to a middle position of the fixing groove (219).

2. The card holder (20) according to claim 1, wherein the card tray (21) further comprises a first surface (217) and a second surface (218) opposite the first surface (217); the card slot (211) comprises a first card slot (2111) defined in the first surface (217) and a second card slot (2112) defined in the second surface (218); the sliding groove (212) is defined in the first surface (217), and passes through the first card slot (2111) and partially penetrates into the second card slot (2112) in a depth direction; the sliding block (22) is able to abut against the data card (300) when the data card (300) is received in the first card slot (2111), or when the data card (300) is received in the second card slot (2112), or when the data card (300) is received in each of the first card slot (2111) and the second card slot (2112).

3. The card holder (20) according to claim 2, wherein the card tray (21) further comprises a partition plate (21a) provided between the first card slot (2111) and the second card slot (2112), and the partition plate (21a) is configured to separate the data card (300) received in the first card slot (2111) from the data card (300) received in the second card slot (2112).

4. The card holder (20) according to claim 1, wherein two ends of the elastic element (23) are fixed at the two ends of the fixing groove (219).

5. The card holder (20) according to claim 1, wherein the elastic element (23) is able to abut against an inner wall of the fixing groove (219).

6. The card holder (20) according to any one of claims 1 to 5, wherein the sliding block (22) slides in the sliding groove (212) along a direction perpendicular to a length direction of the elastic element (23), and the elastic element (23) penetrates the sliding block (22) or extends outwardly from two sides of the sliding block (22).

7. The card holder (20) according to claim 6, wherein the sliding block (22) is located in a middle position in the length direction of the elastic element (23), and a sliding direction of the sliding block (22) within the sliding groove (212) is aligned with a middle position of the card slot (211).

8. The card holder (20) according to any one of claims 1 to 7, further comprising a handle (24) coupled to an end of the card tray (21), the sliding groove (212) being located between the card slot (211) and the handle (24).

9. The card holder (20) according to any one of claims 1 to 8, wherein the card tray (21) exhibits a rectangular parallelepiped shape overall, and the card slot (211) is defined by four side walls coupled end to end, the side walls comprising a first side wall (213), a second side wall (214), a third side wall (215) and a fourth side wall (216).

10. The card holder (20) according to claim 9, wherein the first side wall (213) and the third side wall (215) are opposite and extend along a second direction; the second side wall (214) and the fourth side wall (216) are opposite and extend along a first direction; the second side wall (214) couples a first end of the first side wall (213) and a first end of the third side wall (215), while the fourth side wall (216) couples a second end of the first side wall (213) and a second end of the third side wall (215).

11. The card holder (20) according to claim 9 or 10, wherein when the data card (300) is not received in the card slot (211), the sliding block (22) is inserted into the card slot (211) by a first depth (D1) along the first direction; when the data card (300) is received in the card slot (211), the sliding block (22) is inserted into the card slot (211) by a second depth (D2) along the first direction, and the first depth (D1) is greater than the second depth (D2).

12. The card holder (20) according to any one of claims 9 to 11, wherein respective thicknesses of the first side wall (213), the second side wall (214) and the fourth side wall (216) are equal.

13. The card holder (20) according to claim 12, wherein the third side wall (215) comprises two end portions (2152) coupled to the second side wall (214) and the fourth side wall (216) correspondingly, and a middle portion (2154) coupling the two end portions (2152); a height of each end portion (2152) is equal to a height of the second side wall (214) and a height of the fourth side wall (216) correspondingly.

14. The card holder (20) according to claim 13, wherein a height of the middle portion (2154) is lower than the height of each end portion (2152).

15. The card holder (20) according to claim 14, wherein a side of the middle portion (2154) away from the card slot (211) defines a chamfer.

16. The card holder (20) according to any one of claims 1 to 15, wherein the sliding block (22) comprises an abutting surface (222), and abuts against the data card (300) by means of the abutting surface (222).

17. An inserting device (100), comprising:

a card socket (10) defining an accommodating space (12); and

a card holder (20) according to any one of claims 1 to 16, capable of being movably inserted into or drawn out of the accommodating space (12).

18. A terminal (200), comprising a card holder (20) according to any one of claims 1 to 16.