CLAIMS

1. A medical suspension bridge, comprising a cross beam (1), a suspension pipe (2), a moving module (21) and a box body connected with the moving module (21), the cross beam (1) being connected with the suspension pipe (2), the moving module (21) being movably connected with the cross beam (1), wherein the medical suspension bridge further comprises a cable carrier (29), electric wires and air pipes, the cross beam (1) comprises a load-bearing beam (3), the moving module (21) comprises a cable carrier moving plate (25) extending to the upper portion of the load-bearing beam (3), one end of the cable carrier (29) is connected to the load-bearing beam (3), the other end is connected to the cable carrier moving plate (25), the electric wires and the air pipes enter the suspension pipe (2) through the moving module (21) and the cable carrier (29) from the inside of the box body;

wherein the cross beam (1) further comprises a rear panel assembly (6) connected to one side of the load-bearing beam (3);

wherein the rear panel assembly (6) comprises a rear cover plate connecting plate (12) connected with the load-bearing beam (3), the load-bearing beam (3) is provided with an outwards convex extension part (3b), the rear cover plate connecting plate (12) is provided with an outwards convex fitting part (12b), and the fitting part (12b) and the extension part (3b) are connected with each other in a clamping manner;

wherein a first groove is provided in the fitting part (12b), a second groove is provided in the extension part (3b), the first groove and the second groove run through each other to jointly form a first routing groove (20) that avoids the cable carrier moving plate (25), and the cable carrier moving plate (25) extends through the first routing groove (20) to the upper portion of the load-bearing beam (3).

2. The medical suspension bridge according to claim 1, wherein two dustproof strips (30) which jointly seal the first routing groove (20) are mounted at the first routing groove (20).

3. The medical suspension bridge according to claim 1, wherein the rear panel

assembly (6) further comprises a rear cover plate (11) and a rear panel (13), the rear cover plate (11), the rear cover plate connecting plate (12) and the rear panel (13) are connected with one another in a clamping manner, and a rear inner cavity (15) is formed among the rear cover plate (11), the rear cover plate connecting plate (12) and the rear panel (13).

4. The medical suspension bridge according to claim 1, wherein the cross beam (1) further comprises a front panel assembly (5) connected to the other side of the load-bearing beam (3), the front panel assembly (5) comprises a front cover plate (7) and a front panel (8) connected with each other in a clamping manner, and the front cover plate (7) and the front panel (8) fit with each other to form a front inner cavity (10).

5. The medical suspension bridge according to claim 1, wherein the rear panel assembly comprises a rear cover (41) and a rear cover connecting plate (42) connected with each other in a clamping manner, the rear cover connecting plate (42) is provided with a side plate (42a), the side plate (42a) is provided with a second routing groove (40) that avoids the cable carrier moving plate (25), and one end of the cable carrier moving plate (25) extends through the second routing groove (40) to the upper portion of the load-bearing beam (3).

6. The medical suspension bridge according to claim 5, wherein the two sides of the cable carrier moving plate (25) are connected with roller assemblies (33), a flexible dustproof belt (34) covering the second routing groove (40) is mounted on a side portion (12a) of the rear cover plate connecting plate (12), and the flexible dustproof belt (34) passes through the roller assemblies (33) and semi-encloses the outside of the cable carrier moving plate (25).

7. The medical suspension bridge according to claim 6, wherein each roller assembly (33) comprises a roller support frame (33a) and at least one dustproof belt roller (33b) mounted on the roller support frame (33a).

8. The medical suspension bridge according to claim 1, wherein the medical

suspension bridge further comprises a rotating mechanism, a shaft seat (102) and a suspension arm (120), the suspension arm (120) is rotatably connected to the shaft seat (102) through the rotating mechanism, the rotating mechanism comprises a rotating shaft (101) and a plastic shaft sleeve (103), the plastic shaft sleeve (103) is connected to the rotating shaft (101), the shaft seat (102) is partially embedded in the plastic shaft sleeve (103), and the rotating shaft (101) drives the suspension arm (120) to rotate relative to the shaft seat (102).

9. The medical suspension bridge according to claim 1, wherein the medical suspension bridge further comprises an airbag brake mechanism, the airbag brake mechanism comprises a guide rail (201), a moving module (202) movably connected to the guide rail (201) and an airbag brake module (203) fixedly connected with the moving module (202), the guide rail (201) is provided with guide rail grooves (201a), the airbag brake module (203) comprises an airbag brake (207) located in the guide rail grooves (201a), each guide rail groove (201a) comprises an upper sidewall (201aa) and a lower sidewall (201ab) which are provided opposite to each other, and the airbag brake (207) tightly presses against the upper sidewall (201aa) and the lower sidewall (201ab) during braking.

10. The medical suspension bridge according to claim 9, wherein the airbag brake (207) comprises a base (207a), and an upper airbag (207b) and a lower airbag (207c) respectively provided at the upper portion and lower portion of the base (207a).

11. The medical suspension bridge according to claim 1, wherein the medical suspension bridge further comprises an electromagnetic brake mechanism, the electromagnetic brake mechanism comprises a guide rail (301), a moving module (302) movably connected to the guide rail (301), and an electromagnetic brake module (303) fixedly connected with the moving module (302), the guide rail (301) is provided with guide rail grooves (301a), and the electromagnetic brake module (303) comprises an electromagnetic brake (307) located in the guide rail grooves (301a).

12. The medical suspension bridge according to claim 11, wherein each guide rail

groove (301a) comprises an upper sidewall (301aa) and a lower sidewall (301ab) provided opposite to each other, the electromagnetic brake (307) comprises an upper armature (307b), a lower armature (307c) and a compression spring provided between the upper armature (307b) and the lower armature (307c), the upper armature (307b) is capable of pressing against the upper sidewall (301aa) under the elastic force of the compression spring, and the lower armature (307c) is capable of pressing against the lower sidewall (301ab) under the elastic force of the compression spring.