

List of Chinese patents for Passenger Boarding Bridges and Supporting Products
Updated as of September 12, 2025

No.	Patent Title	Country	Type	Patentee	Application No.	Filing Date	Grant Date	Expiration Date	Legal Status
1	Walking mechanism of boarding bridge and its control method	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200510100860.3	2005/10/27	2009/10/14	2025/10/27	Valid
2	Auxiliary supporting unit, boarding bridge with the same and method for improving stability of the boarding bridge by using the same	CN (HK)	Invention	CHINA INTERNATIONAL MARINE CONTAINERS (GROUP) CO., LTD	07103914.0	2007/4/16	2012/1/20	2027/4/16	Valid
3	A plane taking bridge cable transmission device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200610062056.5	2006/8/9	2010/5/12	2026/8/9	Valid
4	Aerobridge control system	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200810090399.1	2008/4/1	2012/2/1	2028/4/1	Valid
5	Aerobridge and control circuit thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200810066320.1	2008/3/20	2011/1/19	2028/3/20	Valid
6	Ship connecting device used for boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200810227909.5	2008/12/1	2014/1/29	2028/12/1	Valid
7	Boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200810226989.2	2008/11/28	2013/5/1	2028/11/28	Valid
8	Ferry board device and boarding bridge thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200810247577.7	2008/12/30	2012/5/23	2028/12/30	Valid
9	Boarding bridge and power supply method thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200910081197.5	2009/4/7	2014/6/4	2029/4/7	Valid
10	Boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN200910237531.1	2009/11/11	2012/12/12	2029/11/11	Valid
11	Boarding bridge joint device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201010160675.4	2010/4/26	2013/7/3	2030/4/26	Valid
12	Wind pipe device, air conditioning system provided with wind pipe device and boarding bridge provided with air conditioning system	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201010261071.9	2010/8/23	2014/2/19	2030/8/23	Valid
13	Safety control device and safety control method	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201110245504.6	2011/8/25	2016/3/30	2031/8/25	Valid

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14	Lifting device and boarding bridge with the lifting device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201110111836.5	2011/4/29	2015/6/17	2031/4/29	Valid
15	Safety protection method and safety protection device for traveling system	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201110237403.4	2011/8/18	2015/4/8	2031/8/18	Valid
16	Boarding bridge height measuring device and method	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201310274684.X	2013/7/2	2017/2/8	2033/7/2	Valid
17	Air bridge and automatic abutting method therefor	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201210164965.5	2012/5/25	2015/7/15	2032/5/25	Valid
18	Aerobridge connecting port device, aerobridge with same and connecting method of aerobridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201210344229.8	2012/9/17	2016/3/30	2032/9/17	Valid
19	Boarding bridge emergency evacuation electronic control system and emergency evacuation method thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201210578626.1	2012/12/27	2016/3/30	2032/12/27	Valid
20	Awning device, boarding bridge and control method of awning device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201310165993.3	2013/5/8	2016/8/17	2033/5/8	Valid
21	Real-time docking airplane capturing method and system	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410377344.4	2014/8/1	2017/12/8	2034/8/1	Valid
22	Airplane docking tracing and positioning system and method on the basis of laser scanning	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410378567.2	2014/8/1	2017/12/8	2034/8/1	Valid
23	Airplane docking guide system and method based on laser scan	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410377385.3	2014/8/1	2017/9/22	2034/8/1	Valid
24	Method and system for guiding airplane docking and identifying airplane type based on machine vision	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410378566.8	2014/8/1	2019/1/1	2034/8/1	Valid
25	Aircraft docking guidance and type recognition system and method	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410377430.5	2014/8/1	2018/7/13	2034/8/1	Valid

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26	Docking airplane tracking and positioning method and system based on machine vision	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410377379.8	2014/8/1	2018/11/27	2034/8/1	Valid
27	Berth airplane front-wheel positioning method based on visual image	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410378544.1	2014/8/1	2018/10/12	2034/8/1	Valid
28	Identification method of airplane model on the basis of visual image	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410377473.3	2014/8/1	2018/7/13	2034/8/1	Valid
29	Docking airplane model identification and verification method and system based on machine vision	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410378542.2	2014/8/1	2018/11/20	2034/8/1	Valid
30	Real-time capture method and system of docking airplane on the basis of machine vision	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410377269.1	2014/8/1	2019/3/1	2034/8/1	Valid
31	Identification and verification system and method of airplane model of docking airplane	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201410377395.7	2014/8/1	2018/9/18	2034/8/1	Valid
32	Position calibration system and calibration method of dual-vibration mirror scanning system	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201610270314.2	2016/4/27	2020/2/4	2036/4/27	Valid
33	Opening and closing mechanism for awning, awning device and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201510890671.4	2015/12/7	2019/11/1	2035/12/7	Valid
34	Self-adaptive image shooting method and self-adaptive image shooting device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201510580301.0	2015/9/11	2023/4/28	2035/9/11	Valid
35	Device is shot to self -adaptation image	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201520706752.X	2015/9/11	2016/2/3	2025/9/11	Valid
36	Connecting bridge and auxiliary device meets sb. at airport thereof	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201520847425.6	2015/10/28	2016/3/23	2025/10/28	Valid
37	Correcting unit of equipment fixing gesture	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201520861522.0	2015/10/30	2016/3/23	2025/10/30	Valid
38	Boarding bridge and butt-jointing auxiliary device thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201510716147.5	2015/10/28	2023/6/30	2035/10/28	Valid

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39	Correcting device and method for equipment installation attitudes	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201510728503.5	2015/10/30	2023/6/6	2035/10/30	Valid
40	Movable passage brake system and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201610810478.X	2016/9/6	2020/7/3	2036/9/6	Valid
41	Chain breaking detection device and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201611201034.2	2016/12/22	2020/12/18	2036/12/22	Valid
42	Braking device and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201610559681.4	2016/7/15	2020/7/14	2036/7/15	Valid
43	Boarding bridge levelling mechanism and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201610635295.9	2016/8/5	2020/8/11	2036/8/5	Valid
44	Boarding bridge levelling mechanism and detection assembly thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201610639033.X	2016/8/5	2020/12/11	2036/8/5	Valid
45	Front edge structure of boarding bridge floor, boarding bridge floor structure, and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201610621465.8	2016/8/2	2020/5/5	2036/8/2	Valid
46	Brake device and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201611199412.8	2016/12/22	2020/10/30	2036/12/22	Valid
47	Braking device and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201611200248.8	2016/12/22	2020/10/30	2036/12/22	Valid
48	Safety protection device of boarding bridge walking mechanism	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201710288419.5	2017/4/27	2020/12/15	2037/4/27	Valid
49	Connecting bridge aerobridge connecting port safety barrier	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201621373868.7	2016/12/13	2017/7/7	2026/12/13	Valid
50	Boarding bridge anti-collision system and boarding bridge anti-collision control method	CN	Invention	Cimc Tianda Engineering Tech Co Ltd	CN201710262227.7	2017/4/20	2021/10/19	2037/4/20	Valid
51	Connecting bridge collision avoidance system	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201720424308.8	2017/4/20	2017/11/24	2027/4/20	Valid
52	Connecting bridge simulation detection system	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201720703887.X	2017/6/16	2018/3/2	2027/6/16	Valid
53	Boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201710791212.X	2017/9/5	2020/9/22	2037/9/5	Valid

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54	Ship connecting opening, boarding bridge provided with ship connecting opening and control method of boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201710546414.8	2017/7/6	2020/3/27	2037/7/6	Valid
55	Lifting hydraulic control system and method and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201710834824.2	2017/9/15	2020/4/28	2037/9/15	Valid
56	Height measuring device and boarding bridge provided with same	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201710447821.3	2017/6/14	2024/6/25	2037/6/14	Valid
57	Height measuring device and have device's connecting bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201720695920.9	2017/6/14	2018/3/2	2027/6/14	Valid
58	Connecting bridge and elevating system thereof	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201721481941.7	2017/11/8	2018/9/28	2027/11/8	Valid
59	Channel anti-pinch device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201711024976.2	2017/10/27	2023/10/3	2037/10/27	Valid
60	Passageway anti -pinch device	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201721416279.7	2017/10/27	2018/5/8	2027/10/27	Valid
61	Aerobridge channel	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201721311190.4	2017/10/10	2018/5/8	2027/10/10	Valid
62	Airplane berth guiding device	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201730522837.7	2017/10/30	2018/4/13	2027/10/30	Valid
63	Airplane berth guiding device (with a rain shade)	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201730522840.9	2017/10/30	2018/4/13	2027/10/30	Valid
64	Boarding bridge and aircraft door protecting device thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201810117971.2	2018/2/6	2024/6/25	2038/2/6	Valid
65	Method, system and boarding bridge for protecting airplane cabin door based on machine vision	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201810499816.1	2018/5/23	2020/12/11	2038/5/23	Valid
66	Connecting bridge and aircraft door protection device thereof	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201820212778.2	2018/2/6	2018/9/28	2028/2/6	Valid
67	Boarding bridge auxiliary airport pickup system and method	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201810464253.2	2018/5/15	2019/4/30	2038/5/15	Valid

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68	Boarding bridge and touch stop device thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201810711965.X	2018/6/29	2021/1/26	2038/6/29	Valid
69	Boarding bridge traveling mechanism and emergency bridge evacuation device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201810713394.3	2018/6/29	2021/5/7	2038/6/29	Valid
70	Boarding bridge and leading-edge structure of boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201910036777.6	2019/1/15	2021/4/2	2039/1/15	Valid
71	Method for connecting boarding bridge to airplane, electronic equipment and storage medium	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201910482725.1	2019/6/4	2021/11/9	2039/6/4	Valid
72	Path planning method for boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201910482731.7	2019/6/4	2022/2/15	2039/6/4	Valid
73	Aircraft cabin door recognition method and device, electronic equipment and storage medium	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201910482724.7	2019/6/4	2024/1/26	2039/6/4	Valid
74	Camera device and protective device thereof	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201920247661.2	2019/2/27	2019/11/8	2029/2/27	Valid
75	Boarding bridge and boarding bridge leading edge device	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201920063810.X	2019/1/15	2019/10/18	2029/1/15	Valid
76	Cab apron device, ship boarding bridge and airplane boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201910517517.0	2019/6/14	2021/11/12	2039/6/14	Valid
77	Method for preventing boarding bridge from impacting wings	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201910750379.0	2019/8/14	2024/5/17	2039/8/14	Valid
78	Transverse moving type boarding bridge and control method thereof	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202010408454.8	2020/5/14	2022/7/5	2040/5/14	Valid
79	Channel structure and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202021727365.1	2020/8/18	2021/4/27	2030/8/18	Valid
80	Boarding bridge anti-collision method and boarding bridge anti-collision system	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202010954391.6	2020/9/11	2022/3/1	2040/9/11	Valid
81	Boarding bridge control method and related equipment	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202011187311.5	2020/10/30	2022/4/29	2040/10/30	Valid

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82	Boarding bridge and air conditioner condensate water discharging system thereof	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202022445083.9	2020/10/28	2021/6/4	2030/10/28	Valid
83	Preventive maintenance system, method and device for boarding bridge, medium and electronic equipment	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202011612675.3	2020/12/30	2023/12/26	2040/12/30	Valid
84	Data processing method and system for boarding bridge and bridge-mounted equipment, medium and equipment	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202011566380.7	2020/12/25	2023/12/15	2040/12/25	Valid
85	Boarding bridge use record processing method and related equipment	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202011535301.6	2020/12/23	2023/3/28	2040/12/23	Valid
86	Sealing strip for boarding bridge and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202120365762.7	2021/2/7	2021/12/3	2031/2/7	Valid
87	Boarding bridge illumination control method and device, electronic device and storage medium	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202110404535.5	2021/4/15	2023/6/6	2041/4/15	Valid
88	Lifting device	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202110346626.8	2021/3/31	2024/6/25	2041/3/31	Valid
89	Boarding bridge and boarding bridge control method	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202110711087.3	2021/6/25	2022/11/29	2041/6/25	Valid
90	Boarding bridge channel, boarding bridge channel assembly and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202121451376.6	2021/6/28	2022/1/21	2031/6/28	Valid
91	Boarding bridge channel and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202110710259.5	2021/6/25	2023/10/3	2041/6/25	Valid
92	The utility model relates to a double-chain driving mechanism and a boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202122225825.1	2021/9/14	2022/1/25	2031/9/14	Valid
93	Floor assembly, connection port and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202111062990.8	2021/9/10	2023/10/17	2041/9/10	Valid
94	Boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202123239605.0	2021/12/21	2022/4/15	2031/12/21	Valid

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95	Control method for boarding bridge to approach airplane, boarding bridge and computer storage medium	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202111262184.5	2021/10/28	2024/4/9	2041/10/28	Valid
96	Lifting device, boarding bridge and boarding bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202111549819.X	2021/12/17	2024/3/12	2041/12/17	Valid
97	Hydraulic system	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201821818688.4	2018/11/6	2019/6/28	2028/11/6	Valid
98	Hydraulic system	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN201811313054.8	2018/11/6	2024/1/23	2038/11/6	Valid
99	Rotary platform and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202220188147.8	2022/1/24	2022/5/13	2032/1/24	Valid
100	Corridor bridge	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202210307503.8	2022/3/25	2024/3/12	2042/3/25	Valid
101	Boarding equipment	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202220673523.2	2022/3/25	2022/6/24	2032/3/25	Valid
102	A boarding bridge control graphical user interface for a display screen panel	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202230048036.2	2022/1/24	2022/12/9	2037/1/24	Valid
103	The utility model relates to an emergency bridge withdrawing device and a boarding bridge	CN	Utility Model	Cimc Tianda Engineering Tech Co Ltd	CN202220522813.7	2022/3/10	2022/6/17	2032/3/10	Valid
104	Channel structure and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202221550342.7	2022/6/17	2022/9/13	2032/6/17	Valid
105	The utility model relates to a telescopic channel and a boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202221562148.0	2022/6/17	2022/9/6	2032/6/17	Valid
106	Control method and device of channel air conditioner, electronic equipment and storage medium	CN	Invention	Shenzhen Cimc Tianda Airport Support Co Ltd; Chengdu Tianfu Int Airport Branch Sichuan Airport Group Co Ltd	CN202210828292.2	2022/7/13	2023/10/3	2042/7/13	Valid
107	Control method and device of boarding channel air conditioner, electronic equipment and storage medium	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202210828161.4	2022/7/13	2024/1/23	2042/7/13	Valid

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108	Control method and device of boarding channel air conditioner, electronic equipment and storage medium	CN	Invention	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202210828253.2	2022/7/13	2024/1/23	2042/7/13	Valid
109	Boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202222217523.4	2022/8/22	2022/11/29	2032/8/22	Valid
110	Boarding bridge operating platform	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202230510558.X	2022/8/5	2022/11/29	2037/8/5	Valid
111	Leveling device, Bridgehead and aviation ground equipment	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202223125352.9	2022/11/23	2023/2/28	2032/11/23	Valid
112	Remote control platform of boarding bridge	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202230730353.2	2022/11/2	2023/2/28	2037/11/2	Valid
113	Remote control platform of boarding bridge	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202230730395.6	2022/11/2	2023/2/28	2037/11/2	Valid
114	Remote control platform of boarding bridge	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202230729930.6	2022/11/2	2023/2/28	2037/11/2	Valid
115	Remote control platform of boarding bridge	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202230729830.3	2022/11/2	2023/2/28	2037/11/2	Valid
116	Aerobridges and their outer passages	CN	Utility Model	Shenzhen Cime Tianda Airport Support Co Ltd; Cime Tianda Engineering Tech Co Ltd	CN202320162325.4	2023/1/12	2023/6/6	2033/1/12	Valid
117	Boarding bridge and walking mechanism thereof	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202320472815.4	2023/3/3	2023/11/3	2033/3/3	Valid
118	Safety guard ring for boarding bridge walking mechanism	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202330091324.0	2023/3/3	2023/6/9	2038/3/3	Valid
119	The present invention relates to a floor decoration paving structure and its connection device	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202321272676.7	2023/5/23	2023/10/13	2033/5/23	Valid
120	The invention relates to a device for detecting the precision of boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202321681783.5	2023/6/29	2023/8/8	2033/6/29	Valid
121	Remote control platform of boarding bridge	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202330712894.7	2023/11/1	2024/4/30	2038/11/1	Valid
122	Telescopic access, boarding bridge and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202323183973.7	2023/11/23	2024/6/25	2033/11/23	Valid

No.	Patent Title	Country	Type	Patentee	Application No.	Filing Date	Grant Date	Expiration Date	Legal Status
123	Graphical user interface of boarding bridge control system for electronic equipment	CN	Design	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202330807466.2	2023/12/7	2024/8/6	2038/12/7	Valid
124	Leveling mechanism and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202421122726.8	2024/5/21	2024/12/31	2034/5/21	Valid
125	Rolling curtain pre-tightening tooling, boarding bridge and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202421395309.0	2024/6/18	2025/3/25	2034/6/18	Valid
126	Connecting platform and passenger passing bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202421446240.X	2024/6/21	2025/2/18	2034/6/21	Valid
127	Canopy emergency withdrawing device and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422293186.6	2024/9/19	2025/6/10	2034/9/19	Valid
128	Canopy emergency retracting device and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422291608.6	2024/9/19	2025/6/10	2034/9/19	Valid
129	Awning device and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422298451.X	2024/9/19	2025/6/10	2034/9/19	Valid
130	Canopy device for boarding bridge, Bridgehead and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422580131.3	2024/10/23	2025/8/12	2034/10/23	Valid
131	Boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422330835.5	2024/9/24	2025/6/13	2034/9/24	Valid
132	Bridgehead and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422218748.0	2024/9/10	2025/7/29	2034/9/10	Valid
133	Safety boot, Bridgehead and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422227640.8	2024/9/10	2025/7/4	2034/9/10	Valid
134	Bridgehead and boarding bridge	CN	Utility Model	SHENZHEN CIMC-TIANTA AIRPORT SUPPORT LTD.	CN202422227622.X	2024/9/10	2025/7/4	2034/9/10	Valid