PATENTS

S/N	REGISTERED OWNER	TITLE	TERRITORY	FILING DATE	FILING/PATENT NO	STATUS
1	Nanofilm Technologies International Limited	Continuous arc deposition apparatus and method with m	USA	23 Feb 2005	7871506	Granted
2	Nanofilm Technologies International Limited	Cutting tools having plasma deposited carbon coatings	Singapore	26 Jun 2007	2009085895	Granted
3	Nanofilm Technologies International Limited	Cutting tools having plasma deposited carbon coatings	UK	26 Jun 2007	2463439	Granted
4	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Cutting tools having plasma deposited carbon coatings	China	26 Jun 2007	ZL200780053790.8	Granted
5	Nanofilm Technologies International Limited	A novel coating having reduced stress and a method of d	Singapore	09 Jun 2009	2010085215	Granted
6	Nanofilm Technologies International Limited	A novel coating having reduced stress and a method of d	Singapore	09 Jun 2009	2011089869	Granted
7	Nanofilm Technologies International Limited	A method for rapid deposition of a coating on a substrat	Singapore	09 Jun 2009	2010085199	Granted
8	Nanofilm Technologies International Limited	A process for producing an image on a substrate	Singapore	09 Jun 2009	2010085173	Granted
9	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A novel coating having reduced stress and a method of d	China	09 Jun 2009	ZL200980119079.7	Granted
10	Nanofilm Technologies International Limited	Filter for removing macro-particles from a plasma beam	Japan	30 Sep 2011	5554451	Granted
11	Nanofilm Technologies International Limited	Filter for removing macro-particles from a plasma beam	Singapore	30 Sep 2011	2013017272	Granted
12	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Filter for removing macro-particles from a plasma beam	China	30 Sep 2011	ZL201180045433.3	Granted
13	Nanofilm AM Germany GMBH	Material composite composed of metal/DLC/fibre-reinfo	Europe	10 Mar 2015	EP2918406	Granted
14	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating method for novel nanometer anti-fingerprint filr	China	26 Feb 2016	ZL201610105969.4	Granted
15	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Method for coating high temperature-resistant diamond	China	13 Dec 2016	ZL201611271853.4	Granted
16	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Color matching method of decorative diamond-like carb	China	13 Dec 2018	ZL201811524484.0	Granted
17	Nanofilm Technologies International Limited	Thick, Low-Stress Tetrahedral Amorphous Carbon Coatin	Europe	08 Oct 2019	3864186	Granted
18	Nanofilm Technologies International Limited	Thick, Low-Stress Tetrahedral Amorphous Carbon Coatin	Japan	08 Oct 2019	7426386	Granted
19	Nanofilm Technologies International Limited	Thick, Low-Stress Tetrahedral Amorphous Carbon Coatin	Singapore	08 Oct 2019	11202102611X	Granted
20	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Thick, Low-Stress Tetrahedral Amorphous Carbon Coatin	China	08 Oct 2019	ZL201910947105	Granted
21	Nanofilm Technologies International Limited	Ta-C Based Coatings with Improved Hardness	Europe	07 Nov 2019	EP3877569	Granted
22	Nanofilm Technologies International Limited	Ta-C Based Coatings with Improved Hardness	Japan	07 Nov 2019	7340016	Granted
23	Nanofilm Technologies International Limited	Ta-C Based Coatings with Improved Hardness	Singapore	07 Nov 2019	11202103338R	Granted
24	Nanofilm Technologies International Limited	Ta-C Based Coatings with Improved Hardness	USA	07 Nov 2019	11643733	Granted
25	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Carbon Coatings with Improved Hardness	China	07 Nov 2019	ZL201911082344.0	Granted
26	Nanofilm Technologies International Limited	Temperature Resistant Carbon Coatings	Europe	07 Nov 2019	3877568	Granted
27	Nanofilm Technologies International Limited	Temperature Resistant Carbon Coatings	Japan	07 Nov 2019	7440508	Granted
28	Nanofilm Technologies International Limited	Temperature Resistant Carbon Coatings	Singapore	07 Nov 2019	11202103322P	Granted
29	Nanofilm Technologies International Limited	Temperature Resistant Carbon Coatings	USA	07 Nov 2019	12123088	Granted
30	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Temperature Resistant Carbon Coatings	China	07 Nov 2019	ZL201911082426.5	Granted

S/N	REGISTERED OWNER	TITLE	TERRITORY	FILING DATE	FILING/PATENT NO	STATUS
31	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Corrosion Resistant Carbon Coatings	China	16 Dec 2019	ZL201911299695.7	Granted
32	Nanofilm Technologies International Limited	Corrosion Resistant Carbon Coatings	Europe	17 Dec 2019	PCT/EP2019/08561	Pending
33	Nanofilm Technologies International Limited	Corrosion Resistant Carbon Coatings	Japan	17 Dec 2019	7507766	Granted
34	Nanofilm Technologies International Limited	Corrosion Resistant Carbon Coatings	Singapore	17 Dec 2019	11202104746X	Granted
35	Nanofilm Technologies International Limited	Improved Coating Processes	Europe	13 Mar 2020	PCT/EP2020/05686	Pending
36	Nanofilm Technologies International Limited	Improved Coating Processes	Japan	13 Mar 2020	7382124	Granted
37	Nanofilm Technologies International Limited	Improved Coating Processes	Singapore	13 Mar 2020	11202109137X	Granted
38	Nanofilm Technologies International Limited	Improved Cathode Arc Source	Europe	13 Mar 2020	3938557	Granted
39	Nanofilm Technologies International Limited	Improved Cathode Arc Source	Japan	13 Mar 2020	7390396	Granted
40	Nanofilm Technologies International Limited	Improved Cathode Arc Source	Singapore	13 Mar 2020	11202109135U	Granted
41	Nanofilm Technologies International Limited	Cathode Arc Source	USA	13 Mar 2020	11926890	Granted
42	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Improved Coating Processes	China	15 Mar 2020	ZL202010178790.8	Granted
43	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Improved Cathode Arc Source	China	15 Mar 2020	ZL202010178933.5	Granted
44	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coloured Coatings	China	06 Nov 2020	ZL202011228218.4	Granted
45	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A Coating Jig	China	11 Dec 2020	ZL202011456617.6	Granted
46	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Device and Method for Detecting Rotating Performance	China	29 Dec 2020	ZL202011594045.8	Granted
47	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Measuring Device and Measuring Method for Cylindrical	China	29 Dec 2020	ZL202011594035.4	Granted
48	Nanofilm AM Germany GMBH and Surpro GMB	Coated metallic article or coated metallic component of	Germany	02 Jul 2020	DE102020117533	Granted
49	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Black Coatings	China	06 Apr 2021	ZL202110370178.5	Granted
50	Yizheng Nahuan Technology Co., Ltd.	Piston ring coating with excellent running-in performanc	China	08 May 2021	202110500126.5	Pending
51	Nanofilm Technologies International Limited	Improved Cathode Arc Source, Filters Thereof and Metho	Europe	18 Jun 2021	4066272	Granted
52	Nanofilm Technologies International Limited	Improved Cathode Arc Source, Filters Thereof and Metho	Japan	18 Jun 2021	7395761	Granted
53	Nanofilm Technologies International Limited	Improved Cathode Arc Source, Filters Thereof and Metho	Singapore	18 Jun 2021	11202251416K	Granted
54	Nanofilm Technologies International Limited	Improved Cathode Arc Source, Filters Thereof and Metho	USA	18 Jun 2021	11903116	Granted
55	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Improved Cathode Arc Source, Filters Thereof and Metho	China	18 Jun 2021	ZL202110683431.2	Granted
56	Sydrogen Energy Pte. Ltd.	Carbon Coated Hydrogen Fuel Cell Bipolar Plates	Europe	14 Jul 2021	EP4088332	Granted
57	Sydrogen Energy Pte. Ltd.	Carbon Coated Hydrogen Fuel Cell Bipolar Plates	Japan	14 Jul 2021	7313577	Granted
58	Sydrogen Energy Pte. Ltd.	Carbon Coated Hydrogen Fuel Cell Bipolar Plates	Singapore	14 Jul 2021	11202252047T	Granted
59	Sydrogen Energy Pte. Ltd.	Carbon Coated Hydrogen Fuel Cell Bipolar Plates	USA	14 Jul 2021	11855308	Granted
60	Sydrogen (Shanghai) Technology Co., Ltd.	Carbon Coated Hydrogen Fuel Cell Bipolar Plates	China	14 Jul 2021	ZL202311385862.6	Granted
61	Yizheng Nahuan Technology Co., Ltd.	Continuous fully automatic cleaning machine for piston r	China	23 Jul 2021	ZL202110837595.6	Granted
62	Yizheng Nahuan Technology Co., Ltd.	Vacuum film removing machine for removing DLC film fr	China	28 Jul 2021	ZL202110855015.6	Granted

S/N	REGISTERED OWNER	TITLE	TERRITORY	FILING DATE	FILING/PATENT NO	STATUS
63	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Piston Rings and Methods of Manufacture	China	12 Nov 2021	ZL202110360718.1	Granted
64	Sydrogen (Shanghai) Technology Co., Ltd.	Coating Rotating Carousel	China	11 May 2022	ZL202210514160.2	Granted
65	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating Rotating Carousel	China	11 May 2022	ZL202210514113.8	Granted
66	Nanofilm Technologies International Limited	Anti-Static Coating	Singapore	31 May 2022	PCT/EP2022/06481	Pending
67	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Anti-Static Coating	China	31 May 2022	202210639284.3	Pending
68	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A glass flipping device for vertical coating and flipping me	China	25 Aug 2022	ZL202211023245.7	Granted
69	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A cleaning agent capable of improving color difference a	China	03 Nov 2022	ZL202211368526.6	Granted
70	Yizheng Nahuan Technology Co., Ltd.	A temperature resistance testing device for piston rings	China	08 Dec 2022	ZL202211581579.6	Granted
71	Sydrogen Energy Pte. Ltd.	Fuel Cell Bipolar Plates	Europe	29 Dec 2022	4399753	Granted
72	Sydrogen Energy Pte. Ltd.	Fuel Cell Bipolar Plates	Japan	29 Dec 2022	PCT/EP2022/08800	Pending
73	Sydrogen Energy Pte. Ltd.	Fuel Cell Bipolar Plates	Singapore	29 Dec 2022	11202402935S	Granted
74	Sydrogen (Shanghai) Technology Co., Ltd.	Fuel Cell Bipolar Plates	China	29 Dec 2022	202211710455.3	Pending
75	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.;	Improvements in Carbon Coated Electrodes	China	18 Jan 2023	ZL202310063345	Granted
76	Nanofilm Technologies International Limited	Carbon Coated Electrodes	Europe	20 Jan 2023	4281601	Granted
77	Nanofilm Technologies International Limited	Carbon Coated Electrodes	Japan	20 Jan 2023	7558429	Granted
78	Nanofilm Technologies International Limited	Carbon Coated Electrodes	Singapore	20 Jan 2023	11202305750R	Granted
79	Nanofilm Technologies International Limited	Carbon Coated Electrodes	USA	20 Jan 2023	11898257	Granted
80	Sydrogen (Shanghai) Technology Co., Ltd.	An electrochemical testing device	China	17 Feb 2023	ZL202310134443.9	Granted
81	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Inline coating apparatus for metallic fuel cell bipolar plat	China	04 May 2023	ZL202310492029.5	Granted
82	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Auxiliary cathode for glow-discharge coating and coating	China	18 Jul 2023	ZL202310885329.X	Granted
83	Nanofilm Technologies International Limited	Hollow cathode arc plasma device	Europe	27 Oct 2022	4362058	Granted
84	Nanofilm Technologies International Limited	Hollow cathode arc plasma device	Singapore	04 Oct 2023	11202408113U	Granted
85	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Hollow cathode arc plasma device	China	10 Oct 2023	ZL202311306969.7	Pending
86	Nanofilm Technologies International Limited	Sealed electrical devices	China	03 Nov 2023	PCT/EP2023/08070	Pending
87	Nanofilm Technologies International Limited	Sealed electrical devices	Europe	03 Nov 2023	PCT/EP2023/08070	Pending
88	Nanofilm Technologies International Limited	Sealed electrical devices	Singapore	03 Nov 2023	PCT/EP2023/08070	Pending
89	Nanofilm Technologies International Limited ar	Coated solar cell	China	03 Nov 2023	PCT/EP2023/08071	Pending
90	Nanofilm Technologies International Limited ar	Coated solar cell	Europe	03 Nov 2023	4548726.0	Granted
91	Nanofilm Technologies International Limited ar	Coated solar cell	Singapore	03 Nov 2023	11202500807X	Granted
92	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Corrosion-resistant, electrically conductive coatings, batt	China	04 Jan 2024	202410016607.2	Pending
93	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Wear-resistant optical composite film and preparation m	China	21 Feb 2024	202410192376.0	Pending
94	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Improved CSS deposition process	China	19 Jan 2024	PCT/EP2024/05123	Pending

S/N	REGISTERED OWNER	TITLE	TERRITORY	FILING DATE	FILING/PATENT NO	STATUS
95	Nanofilm Technologies International Limited ar	Improved CSS deposition process	Europe	19 Jan 2024	PCT/EP2024/05123	Pending
96	Nanofilm Technologies International Limited ar	Improved CSS deposition process	Singapore	19 Jan 2024	PCT/EP2024/05123	Pending
97	Nanofilm Technologies International Limited	Improved CSS deposition process	USA	19 Jan 2024	PCT/EP2024/05123	Pending
98	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Solid oxide fuel cell electrolyte film and method of manu	China	31 Jul 2024	202411041930.1	Pending
99	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Preparation method of nano-film sample with Ti-contain	China	24 Nov 2024	202411685970.X	Pending
100	Sydrogen (Shanghai) Technology Co., Ltd.	Automatic fixturing device and method	China	30 Dec 2024	202411958838.1	Pending
101	Sydrogen (Shanghai) Technology Co., Ltd., Nano	Coating roating carousel, equipment, carousel adjustmer	China	31 Dec 2024	202411988971.1	Pending
102	Yizheng Nahuan Technology Co., Ltd.	Piston rings	China	02 Jul 2025	202510907585.3	Pending
103	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Electrically Conductive and Corrosion-Resistant Composi	China	01 Aug 2025	202511076319.7	Pending
104	Nanofilm Technologies International Limited	Electrically Conductive and Corrosion-Resistant Composi	Europe	04 Aug 2025	4716768	Granted
105	Nanofilm Technologies International Limited	Electrically Conductive and Corrosion-Resistant Composi	Singapore	04 Aug 2025	11202507951U	Granted
106	Nanofilm Technologies International Limited	Improved lens	WIPO	15 Oct 2025	PCT/EP2025/07981	Pending
107	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Corrosion-Resistant Black Coating and Preparation Meth	China	31 Jul 2026	202611158842.9	Pending
108	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Method for Preparing a Color-Tunable Ultra-Black Film a	China	31 Jul 2026	202611158843.3	Pending

(updated 2026-10-15)

UTILITY MODELS （实用新型专利）

S/N	REGISTERED OWNER	TITLE	TERRITORY	FILING DATE	PATENT NO.	STATUS
1	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A large vacuum coating apparatus producing diamond th	China	30 Dec 2016	ZL201621474910.4	Granted
2	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A novel type of diamond thin-film	China	30 Dec 2016	ZL201621487788.4	Granted
3	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating shielding jig for watchcase	China	30 Jul 2019	ZL201921212034.1	Granted
4	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Quick feeding tool of coating clamp	China	30 Jul 2019	ZL201921212037.5	Granted
5	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Test device capable of cyclically simulating ball head batt	China	30 Jul 2019	ZL201921212047.9	Granted
6	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating film shielding jig for product with screw teeth	China	30 Jul 2019	ZL201921212595.1	Granted
7	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating jig capable of improving coating uniformity	China	30 Jul 2019	ZL201921212613.6	Granted
8	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Flat valve machining equipment with riveting and air tigh	China	07 Aug 2019	ZL201921271011.8	Granted
9	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Efficient air drying equipment	China	07 Aug 2019	ZL201921270512.4	Granted
10	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	High-temperature-resistant detection equipment for aut	China	07 Aug 2019	ZL201921270491.6	Granted
11	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Automatic bottle taking detection equipment	China	07 Aug 2019	ZL201921271008.6	Granted
12	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Automatic packaging machine	China	07 Aug 2019	ZL201921270485.0	Granted
13	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A coating jig	China	25 Nov 2020	ZL202022754870.1	Granted

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14	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A coating jig	China	25 Nov 2020	ZL202022764051.5	Granted
15	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A coating jig	China	25 Nov 2020	ZL202022754917.4	Granted
16	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A coating jig	China	11 Dec 2020	ZL202022988894.3	Granted
17	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A coating jig	China	11 Dec 2020	ZL202022987993.X	Granted
18	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Contact resistance testing device	China	11 Dec 2020	ZL202022988402.0	Granted
19	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Device for detecting rotation performance of rotation m	China	29 Dec 2020	ZL202023254272.4	Granted
20	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Measuring device for cylindrical target	China	29 Dec 2020	ZL202023254271.X	Granted
21	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating Baffle	China	30 Jun 2021	ZL202121476762.0	Granted
22	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Double-Body Coating Machine	China	30 Jun 2021	ZL202121476761.6	Granted
23	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating Equipment	China	08 Jul 2021	ZL202121545740.5	Granted
24	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A percussion experiment device	China	11 May 2022	ZL202221132543.5	Granted
25	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A contact resistance automatic test equipment	China	11 May 2022	ZL202221128098.5	Granted
26	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A liquid evaporation coating device	China	11 May 2022	ZL202221132534.6	Granted
27	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A rotating holder testing device	China	11 May 2022	ZL202221132507.9	Granted
28	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A glass flipping device for vertical vacuum coating	China	25 Aug 2022	ZL202222239812.4	Granted
29	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A coating jig for tiny electronic products	China	03 Nov 2022	ZL202222922370.3	Granted
30	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Inline coating apparatus for metallic fuel cell bipolar plat	China	04 May 2023	ZL202321040504.7	Granted
31	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	An anode layer ion source and its cathodic shield	China	04 May 2023	ZL202321040525.9	Granted
32	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	An auxiliary cathode for glow-discharge coating and coat	China	18 Jul 2023	ZL202321895198.5	Granted
33	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating fixtures and cleaning devices	China	24 Oct 2023	ZL202322864538.4	Granted
34	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Fabric coating fixture	China	24 Oct 2023	ZL202322861819.4	Granted
35	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating device	China	09 Nov 2023	ZL202323037511.4	Granted
36	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Anti-reflective coatings	China	09 Nov 2023	ZL202323033066.4	Granted
37	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Gradient color coatings	China	24 Nov 2023	ZL202323193956.1	Granted
38	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating device and coating equipment	China	24 Nov 2023	ZL202323198457.1	Granted
39	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating device and coating equipment	China	22 Dec 2023	ZL202323528067.6	Granted
40	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Optical composite coatings	China	21 Feb 2024	ZL202420325330.7	Granted
41	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Testing device for coating properties	China	25 Mar 2024	ZL202420594070.3	Granted
42	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Material suction device	China	11 Jun 2024	ZL202421324319.5	Granted
43	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Solid oxide fuel cell electrolyte thin film	China	31 Jul 2024	ZL202421845435.1	Granted
44	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Automatic sorting device	China	22 Aug 2024	ZL202422056666.0	Granted
45	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Corrosion-resistant, electrically conductive coatings and	China	24 Dec 2024	ZL202423187179.4	Granted

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46	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	A coating fixture capable of adjusting the rotation angle,	China	23 Jan 2025	ZL202520161654.6	Granted
47	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	High-stability coating carousel and coating equipment	China	28 Jun 2025	ZL202521343013.9	Granted
48	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Coating fixture, coating carousel and coating equipment	China	28 Jun 2025	ZL202521343011.X	Granted
49	Nanofilm Vacuum Coating (Shanghai) Co., Ltd.	Conveying device and coating apparatus	China	28 Jun 2025	ZL202521343012.4	Granted
50	Yizheng Nahuan Technology Co., Ltd.	Waste liquid collecting tank for cleaning piston rings	China	22 Jul 2021	ZL202121678094.X	Granted
51	Yizheng Nahuan Technology Co., Ltd.	Multi-groove cleaning machine for piston ring coating	China	22 Jul 2021	ZL202121677773.5	Granted
52	Yizheng Nahuan Technology Co., Ltd.	Cleaning jig for cleaning piston rings	China	22 Jul 2021	ZL202121676728.8	Granted
53	Yizheng Nahuan Technology Co., Ltd.	Piston ring cleaning machine capable of realizing cyclic u	China	23 Jul 2021	ZL202121685528.9	Granted
54	Yizheng Nahuan Technology Co., Ltd.	Vacuum drying device for cleaning piston rings	China	23 Jul 2021	ZL202121685429.0	Granted
55	Yizheng Nahuan Technology Co., Ltd.	Piston ring feeding mechanism for vacuum coating mach	China	09 Aug 2021	ZL202121856789.2	Granted
56	Yizheng Nahuan Technology Co., Ltd.	Piston ring vacuum coating machine with vacuum degree	China	09 Aug 2021	ZL202121850444.6	Granted
57	Yizheng Nahuan Technology Co., Ltd.	Vacuum coating machine capable of uniformly coating pi	China	09 Aug 2021	ZL202121865988.X	Granted
58	Yizheng Nahuan Technology Co., Ltd.	Transfer device for piston ring DLC vacuum coating	China	11 Aug 2021	ZL202121875050.6	Granted
59	Yizheng Nahuan Technology Co., Ltd.	Coating jig for piston ring DLC vacuum coating	China	11 Aug 2021	ZL202121876624.1	Granted
60	Yizheng Nahuan Technology Co., Ltd.	Fixing jig for piston ring vacuum coating	China	02 Sep 2021	ZL202122102791.7	Granted
61	Yizheng Nahuan Technology Co., Ltd.	Driving power assembly for vacuum coating machine	China	02 Sep 2021	ZL202122102709.0	Granted
62	Yizheng Nahuan Technology Co., Ltd.	Cooling system assembled on vacuum coating machine	China	02 Sep 2021	ZL202122112076.1	Granted
63	Yizheng Nahuan Technology Co., Ltd.	Piston ring coating machine with intelligent temperature	China	03 Sep 2021	ZL202122112037.1	Granted
64	Yizheng Nahuan Technology Co., Ltd.	Insulation pre-detection device for vacuum coating mach	China	03 Sep 2021	ZL202122126966.8	Granted
65	Yizheng Nahuan Technology Co., Ltd.	Polishing device for piston ring machining	China	03 Nov 2022	ZL202222921685.6	Granted
66	Yizheng Nahuan Technology Co., Ltd.	Vacuumizing device of piston ring coating machine	China	03 Nov 2022	ZL202222920647.9	Granted
67	Yizheng Nahuan Technology Co., Ltd.	Spraying mechanism for cleaning piston rings	China	04 Nov 2022	ZL202222933770.4	Granted
68	Yizheng Nahuan Technology Co., Ltd.	A coating device for piston rings	China	05 Dec 2022	ZL202223243749.8	Granted
69	Yizheng Nahuan Technology Co., Ltd.	A fixture for piston ring vacuum coating	China	09 Dec 2022	ZL202223299761.0	Granted
70	Yizheng Nahuan Technology Co., Ltd.	Air cooling assembly for vacuum coating machine	China	10 Apr 2023	ZL202320760645.X	Granted
71	Yizheng Nahuan Technology Co., Ltd.	Fixture used in piston ring coating preparation	China	13 Oct 2023	ZL202322750909.6	Granted
72	Yizheng Nahuan Technology Co., Ltd.	Vacuum coating equipment with filtering device	China	13 Oct 2023	ZL202322760219.9	Granted
73	Yizheng Nahuan Technology Co., Ltd.	cathode arc device for preparation of cathode arc coatin	China	04 Jan 2024	ZL202420017112.7	Granted
74	Yizheng Nahuan Technology Co., Ltd.	DLC vacuum coating equipment for improving the densit	China	24 Jul 2024	ZL202421755079.4	Granted
75	Yizheng Nahuan Technology Co., Ltd.	Vacuum coating machine heat dissipation structure with	China	21 Aug 2024	ZL202422025988.9	Granted
76	Yizheng Nahuan Technology Co., Ltd.	Machining device with stable fixing function for piston ri	China	23 Aug 2024	ZL202422049168.3	Granted
77	Yizheng Nahuan Technology Co., Ltd.	Condensate discharge mechanism for vacuum coating m	China	15 Oct 2024	ZL202422485522.7	Granted

S/N	REGISTERED OWNER	TITLE	TERRITORY	FILING DATE	FILING/PATENT NO	STATUS
78	Yizheng Nahuan Technology Co., Ltd.	Piston rings capable of reducing friction loss	China	19 Nov 2025	ZL202522448704.1	Granted
79	Sydrogen (Shanghai) Technology Co., Ltd.	Three-electrode electrolytic tank device	China	17 Feb 2023	ZL202320252312.6	Granted
80	Sydrogen (Shanghai) Technology Co., Ltd.	A device for testing the strength of welding joints	China	17 Feb 2023	ZL202320239052.9	Granted
81	Sydrogen (Shanghai) Technology Co., Ltd.	A coating fixture	China	23 Aug 2023	ZL202322284088.1	Granted
82	Sydrogen (Shanghai) Technology Co., Ltd.	A coating fixture	China	23 Aug 2023	ZL202322278269.3	Granted
83	Sydrogen (Shanghai) Technology Co., Ltd.	Vacuum drying device	China	23 Aug 2023	ZL202322278887.8	Granted
84	Sydrogen (Shanghai) Technology Co., Ltd.	Testing device	China	27 Sep 2023	ZL202322645827.5	Granted
85	Sydrogen (Shanghai) Technology Co., Ltd.	Testing device for contact resistance	China	19 Mar 2024	ZL202420538994.1	Granted
86	Sydrogen (Shanghai) Technology Co., Ltd.	Multi-functional coating jig and coating equipment	China	26 Aug 2024	ZL202422076356.5	Granted
87	Sydrogen (Shanghai) Technology Co., Ltd.	A cleaning tool	China	12 Oct 2024	ZL202422469342.X	Granted
88	Sydrogen (Shanghai) Technology Co., Ltd.	Measurement device for testing fuel cell metal bipolar p	China	30 Dec 2024	ZL202423260388.7	Granted
89	Sydrogen (Shanghai) Technology Co., Ltd.	Coating fixture and automatic clamping device	China	30 Dec 2024	ZL202423260391.9	Granted
90	Sydrogen (Shanghai) Technology Co., Ltd.	Coating fixture and automatic clamping device	China	30 Dec 2024	ZL202423260398.0	Granted
91	Sydrogen (Shanghai) Technology Co., Ltd.	A coating fixture	China	20 Nov 2024	ZL202422833707.2	Granted
92	Sydrogen (Shanghai) Technology Co., Ltd.	Coating carousel and coating equipment	China	31 Dec 2024	ZL202423307934.8	Granted
93	Sydrogen (Shanghai) Technology Co., Ltd., Nano	Composite protective coatings	China	14 Nov 2025	ZL202522417418.9	Granted
94	Nanofilm AM Germany GMBH and Surpro GMB	Coated metallic article or coated metallic component of	Germany	16 Aug 2019	DE202019104533U1	Granted

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