

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PAT1624452

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	HUAWEI TECHNOLOGIES CO., LTD.	11/12/2024
<b>RECEIVING PARTY DATA</b>		
<b>Company Name:</b>	Shenzhen Yinwang Intelligent Technologies Co., Ltd.	
<b>Street Address:</b>	Room 101, Huawei Headquarters Office Building, Huawei, Vanke City Community, Bantian Street, Longgang District	
<b>City:</b>	Shenzhen	
<b>State/Country:</b>	CHINA	
<b>Postal Code:</b>	518129	
<b>PROPERTY NUMBERS Total: 50</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	17746706	
Application Number:	17940815	
Application Number:	17681351	
Application Number:	17589354	
Application Number:	17677013	
Application Number:	17680885	
Application Number:	17698047	
Application Number:	17704693	
Application Number:	18164398	
Application Number:	17703081	
Application Number:	18189362	
Application Number:	16989174	
Application Number:	17378029	
Application Number:	17574766	
Application Number:	18495735	
Application Number:	17965906	
Application Number:	17696545	
Application Number:	17865883	
Application Number:	17692801	
Application Number:	17716837	

PATENT

Property Type	Number
Application Number:	17993718
Application Number:	17854452
Application Number:	17716469
Application Number:	17848216
Application Number:	17854441
Application Number:	17230050
Application Number:	17887640
Application Number:	17336869
Application Number:	17902288
Application Number:	17349179
Application Number:	17939506
Application Number:	17657222
Application Number:	17932925
Application Number:	17657216
Application Number:	17673159
Application Number:	17748849
Application Number:	17717646
Application Number:	17830987
Application Number:	17368382
Application Number:	17894378
Application Number:	17827170
Application Number:	17848832
Application Number:	17895491
Application Number:	17843535
Application Number:	17827178
Application Number:	17896683
Application Number:	17827376
Application Number:	17849035
Application Number:	18147242
Application Number:	17945171

**CORRESPONDENCE DATA**

**Fax Number:**

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** +867(552)842-9636

**Email:** uspatent@huawei.com

**Correspondent Name:** Shuang Liu

**Address Line 1:** Huawei Administration Building, Bantian, Longgang District

**Address Line 4:** Shenzhen, CHINA 518129

<b>NAME OF SUBMITTER:</b>	Chanchan Zhou
<b>SIGNATURE:</b>	Chanchan Zhou
<b>DATE SIGNED:</b>	11/12/2024
<b>Total Attachments: 22</b> source=US Assignment#page1.tiff source=US Assignment#page2.tiff source=US Assignment#page3.tiff source=US Assignment#page4.tiff source=US Assignment#page5.tiff source=US Assignment#page6.tiff source=US Assignment#page7.tiff source=US Assignment#page8.tiff source=US Assignment#page9.tiff source=US Assignment#page10.tiff source=US Assignment#page11.tiff source=US Assignment#page12.tiff source=US Assignment#page13.tiff source=US Assignment#page14.tiff source=US Assignment#page15.tiff source=US Assignment#page16.tiff source=US Assignment#page17.tiff source=US Assignment#page18.tiff source=US Assignment#page19.tiff source=US Assignment#page20.tiff source=US Assignment#page21.tiff source=US Assignment#page22.tiff	

## Assignment of Patent Rights

For good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, **HUAWEI TECHNOLOGIES CO., LTD., having a principal place of business in Huawei Administration Building, Bantian, Longgang District, Shenzhen, Guangdong, 518129, China (“Assignor”)**, hereby:

sells, assigns, transfers and conveys unto **Shenzhen Yinwang Intelligent Technologies Co., Ltd., having an address of Room 101, Huawei Headquarters Office Building, Huawei, Vanke City Community, Bantian Street, Longgang District, Shenzhen, Guangdong, 518129, China (“Assignee”)**, and its successors, all rights, title and interest in and to:

(A) all (a) filed and/or pending provisional, non-provisional and design patent applications and granted and issued patents listed below; (b) reissues, reexaminations, extensions, continuations, substitutions, continuing prosecution applications, requests for continuing examinations and divisions of any of the foregoing; and (c) foreign patents, patent applications and counterparts, including international and regional applications, relating to any item in the foregoing including, without limitation, certificates of invention, utility models, industrial designs, design patents, inventor certificates, and other governmental grants or issuances (the “Transferred Patent”) as listed in the accompanying Appendix;

(B) Right to apply for patent in any and all countries of the world for any of the Transferred Patents;

(C) Causes of action (whether currently pending, filed or otherwise) and other enforcement rights under, or on account of, any of the Transferred Patents, including, without limitation, all causes of action and other enforcement rights for (i) damages, (ii) injunctive relief, and (iii) any other remedies of any kind for past, current and future infringement; and

(D) Rights to collect royalties or other payments under or on account of any of the Transferred Patents.

AND Assignor hereby agrees to execute without further consideration, any further documents and instruments prepared by or on behalf of Assignee which are reasonable, lawful and necessary to perfect title in and to the Transferred Patent;

AND Assignor hereby authorize the respective patent office or governmental agency in each jurisdiction to issue in the name of Assignee, as the owner of the entire interest therein, any and all Certificates of Correction, reissue, reexamination, divisional, continuation or other patents that may arise from any of the Transferred Patents, and for Assignee to apply or petition for any of the foregoing.

The terms and conditions of this Assignment of Patent Rights shall inure to the benefit of Assignee, its successors, assigns and other legal representatives and will be binding upon Assignor, its successors, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed and effective as of November 12, 2024 ("Effective Date").

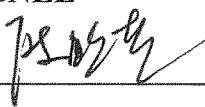
**ASSIGNOR**

By: 

Name: Shuaifeng Shang

Title: Supervisor of System Platform  
& Process Dept.

**ASSIGNEE**

By: 

Name: Xiaorong Duan

Title: Director of the Legal Affairs Dept.

## APPENDIX

### Transferred Patents

Country	Application No.	Filing Date	Grant No.	Grant Date
US	15858210	29 Dec 2017	10361568	23 Jul 2019
US	15948833	9 Apr 2018	10581254	3 Mar 2020
US	16014862	21 Jun 2018	10666164	26 May 2020
US	16042688	23 Jul 2018	10931134	23 Feb 2021
US	16115892	29 Aug 2018	10525836	7 Jan 2020
US	15948612	9 Apr 2018	10819123	27 Oct 2020
US	16137126	20 Sep 2018	11150284	19 Oct 2021
US	16407977	9 May 2019	11260756	1 Mar 2022
US	17673132	16 Feb 2022	11919422	5 Mar 2024
US	15991813	29 May 2018	10809709	20 Oct 2020
US	16225209	19 Dec 2018	10707801	7 Jul 2020
US	16365352	26 Mar 2019	11215679	4 Jan 2022
US	16366633	27 Mar 2019	11260759	1 Mar 2022
US	16411635	14 May 2019	10847991	24 Nov 2020
US	16285969	26 Feb 2019	11211815	28 Dec 2021
US	16456157	28 Jun 2019	10923922	16 Feb 2021
US	16576368	19 Sep 2019	11313908	26 Apr 2022
US	16673666	4 Nov 2019	11243259	8 Feb 2022
US	16550950	26 Aug 2019	10884510	5 Jan 2021
US	17120641	14 Dec 2020	11275449	15 Mar 2022
US	17577731	18 Jan 2022	11847265	19 Dec 2023
US	16457424	28 Jun 2019	10913426	9 Feb 2021
US	16672064	1 Nov 2019	11322936	3 May 2022
US	16510289	12 Jul 2019	11468715	11 Oct 2022
US	17939438	7 Sep 2022	12086165	10 Sep 2024
US	16447600	20 Jun 2019	11867765	9 Jan 2024
US	16734941	6 Jan 2020	11670193	6 Jun 2023
US	16695847	26 Nov 2019	11222530	11 Jan 2022
US	16692654	22 Nov 2019	11271771	8 Mar 2022
US	16694256	25 Nov 2019	11465628	11 Oct 2022
US	16818662	13 Mar 2020	11810454	7 Nov 2023
US	16730444	30 Dec 2019	12077176	3 Sep 2024
US	15725043	4 Oct 2017	10997491	4 May 2021
US	16248543	15 Jan 2019	11688160	27 Jun 2023

Country	Application No.	Filing Date	Grant No.	Grant Date
US	16861856	29 Apr 2020	11211052	28 Dec 2021
US	16891679	3 Jun 2020	10927934	23 Feb 2021
US	16874172	14 May 2020	11407426	9 Aug 2022
US	16915816	29 Jun 2020	11513193	29 Nov 2022
US	16895792	8 Jun 2020	11650413	16 May 2023
US	17018505	11 Sep 2020	11872999	16 Jan 2024
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US	17075397	20 Oct 2020	11323541	3 May 2022
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US	17334076	28 May 2021	11933627	19 Mar 2024
US	17346485	14 Jun 2021	/	/
US	17029561	23 Sep 2020	11724700	15 Aug 2023
US	18347051	5 Jul 2023	/	/
US	16920058	2 Jul 2020	11410322	9 Aug 2022
US	17353017	21 Jun 2021	11353553	7 Jun 2022
US	17825601	26 May 2022	12044776	23 Jul 2024
US	17357229	24 Jun 2021	11391575	19 Jul 2022
US	17028379	22 Sep 2020	10994749	4 May 2021
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US	17238276	23 Apr 2021	11982731	14 May 2024
US	17218534	31 Mar 2021	12055625	6 Aug 2024
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US	17138219	30 Dec 2020	11528154	13 Dec 2022
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US	17489069	29 Sep 2021	/	/
US	17322388	17 May 2021	11273838	15 Mar 2022
US	17539005	30 Nov 2021	12087289	10 Sep 2024
US	17484462	24 Sep 2021	12105188	1 Oct 2024
US	17490242	30 Sep 2021	/	/



Country	Application No.	Filing Date	Grant No.	Grant Date
US	17456223	23 Nov 2021	/	/
US	17319171	13 May 2021	11842545	12 Dec 2023
US	17390310	30 Jul 2021	/	/
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US	17401509	13 Aug 2021	12099879	24 Sep 2024
US	17338390	3 Jun 2021	/	/
US	17390286	30 Jul 2021	11971468	30 Apr 2024
US	17486335	27 Sep 2021	11906318	20 Feb 2024
US	17486946	28 Sep 2021	/	/
US	17338359	3 Jun 2021	11964671	23 Apr 2024
US	17554605	17 Dec 2021	/	/
US	17489085	29 Sep 2021	12001517	4 Jun 2024
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US	17338383	3 Jun 2021	/	/
US	17496999	8 Oct 2021	/	/
US	17317294	11 May 2021	12061088	13 Aug 2024
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US	17678334	23 Feb 2022	/	/
US	17346823	14 Jun 2021	11381970	5 Jul 2022
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US	17557645	21 Dec 2021	12072432	27 Aug 2024
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US	17687377	4 Mar 2022	/	/
US	17729834	26 Apr 2022	/	/
US	17496928	8 Oct 2021	/	/
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US	17315772	10 May 2021	12063294	13 Aug 2024
US	17749627	20 May 2022	12007906	11 Jun 2024
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US	17537269	29 Nov 2021	/	/
US	17706351	28 Mar 2022	/	/

Country	Application No.	Filing Date	Grant No.	Grant Date
US	17489112	29 Sep 2021	12049170	30 Jul 2024
US	17708876	30 Mar 2022	/	/
US	17675966	18 Feb 2022	/	/
US	17326006	20 May 2021	11731611	22 Aug 2023
US	17369520	7 Jul 2021	11941259	26 Mar 2024
US	17542699	6 Dec 2021	/	/
US	17750070	20 May 2022	/	/
US	17563706	28 Dec 2021	/	/
US	17844964	21 Jun 2022	/	/
US	17644920	17 Dec 2021	11698459	11 Jul 2023
US	17837488	10 Jun 2022	12025213	2 Jul 2024
US	17179764	19 Feb 2021	11922935	5 Mar 2024
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US	17675743	18 Feb 2022	/	/
US	17743885	13 May 2022	/	/
US	17360360	28 Jun 2021	11979413	7 May 2024
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US	17703133	24 Mar 2022	/	/
US	17709228	30 Mar 2022	/	/
US	17557677	21 Dec 2021	/	/
US	17707691	29 Mar 2022	/	/
US	17703079	24 Mar 2022	/	/
US	17588789	31 Jan 2022	12021955	25 Jun 2024
US	17698233	18 Mar 2022	/	/
US	17543355	6 Dec 2021	/	/
US	17575428	13 Jan 2022	/	/
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US	17902561	2 Sep 2022	/	/
US	17559412	22 Dec 2021	/	/
US	17735290	3 May 2022	/	/
US	17188106	1 Mar 2021	12044796	23 Jul 2024
US	17846906	22 Jun 2022	/	/
US	17592889	4 Feb 2022	/	/
US	17665143	4 Feb 2022	/	/
US	17344481	10 Jun 2021	11410389	9 Aug 2022
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US	17581847	21 Jan 2022	/	/
US	17686581	4 Mar 2022	/	/

Country	Application No.	Filing Date	Grant No.	Grant Date
US	17845337	21 Jun 2022	/	/
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US	17746706	17 May 2022	/	/
US	17940815	8 Sep 2022	/	/
US	17681351	25 Feb 2022	/	/
US	17589354	31 Jan 2022	/	/
US	17677013	22 Feb 2022	/	/
US	17680885	25 Feb 2022	12115908	15 Oct 2024
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US	17704693	25 Mar 2022	/	/
US	18164398	3 Feb 2023	/	/
US	17703081	24 Mar 2022	/	/
US	18189362	24 Mar 2023	/	/
US	16989174	10 Aug 2020	11073877	27 Jul 2021
US	17378029	16 Jul 2021	11726534	15 Aug 2023
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US	17696545	16 Mar 2022	/	/
US	17865883	15 Jul 2022	/	/
US	17692801	11 Mar 2022	11929777	12 Mar 2024
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US	17854452	30 Jun 2022	/	/
US	17716469	8 Apr 2022	/	/
US	17848216	23 Jun 2022	/	/
US	17854441	30 Jun 2022	12079618	3 Sep 2024
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US	17657222	30 Mar 2022	/	/
US	17932925	16 Sep 2022	/	/
US	17657216	30 Mar 2022	/	/
US	17673159	16 Feb 2022	/	/
US	17748849	19 May 2022	12101172	24 Sep 2024

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US	17717646	11 Apr 2022	/	/
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US	17368382	6 Jul 2021	11392685	19 Jul 2022
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US	17895954	25 Aug 2022	/	/

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US	17827288	27 May 2022	/	/
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US	17960494	5 Oct 2022	/	/
US	17831136	2 Jun 2022	/	/
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US	17749617	20 May 2022	/	/
US	17940099	8 Sep 2022	/	/
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US	17947394	19 Sep 2022	/	/
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US	17868197	19 Jul 2022	/	/
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US	17989963	18 Nov 2022	/	/
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US	17956087	29 Sep 2022	/	/
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Country	Application No.	Filing Date	Grant No.	Grant Date
US	17896163	26 Aug 2022	/	/
US	17942380	12 Sep 2022	/	/
US	17856088	1 Jul 2022	/	/
US	17930725	9 Sep 2022	12119552	15 Oct 2024
US	17987694	15 Nov 2022	/	/
US	17943898	13 Sep 2022	/	/
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US	17990290	18 Nov 2022	/	/
US	17717383	11 Apr 2022	/	/
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US	17870485	21 Jul 2022	/	/
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US	17870494	21 Jul 2022	/	/
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US	17847907	23 Jun 2022	/	/
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Country	Application No.	Filing Date	Grant No.	Grant Date
US	18192436	29 Mar 2023	/	/
US	17985479	11 Nov 2022	/	/
US	17863654	13 Jul 2022	12009768	11 Jun 2024
US	17952064	23 Sep 2022	/	/
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US	17983604	9 Nov 2022	/	/
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US	17948446	20 Sep 2022	/	/
US	17986344	14 Nov 2022	/	/
US	17986483	14 Nov 2022	/	/
US	17986198	14 Nov 2022	/	/
US	18171901	21 Feb 2023	/	/

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US	17976430	28 Oct 2022	/	/
US	17345542	11 Jun 2021	11321074	3 May 2022
US	17970949	21 Oct 2022	/	/
US	18161223	30 Jan 2023	/	/
US	18045976	12 Oct 2022	/	/
US	18048679	21 Oct 2022	/	/
US	18071333	29 Nov 2022	/	/
US	18069577	21 Dec 2022	/	/
US	18148625	30 Dec 2022	/	/
US	18189703	24 Mar 2023	/	/
US	18160181	26 Jan 2023	/	/
US	18148622	30 Dec 2022	/	/
US	18161665	30 Jan 2023	/	/
US	18156827	19 Jan 2023	/	/
US	18147517	28 Dec 2022	/	/
US	17965455	13 Oct 2022	/	/
US	18161623	30 Jan 2023	/	/
US	18340530	23 Jun 2023	/	/
US	18154148	13 Jan 2023	/	/
US	18186063	17 Mar 2023	/	/
US	17970684	21 Oct 2022	/	/
US	18328313	2 Jun 2023	/	/
US	18148954	30 Dec 2022	/	/
US	18300608	14 Apr 2023	/	/
US	18299384	12 Apr 2023	/	/
US	18310179	1 May 2023	12092819	17 Sep 2024
US	18156845	19 Jan 2023	/	/
US	18167627	10 Feb 2023	/	/
US	18326275	31 May 2023	/	/
US	18471713	21 Sep 2023	/	/
US	17973767	26 Oct 2022	/	/
US	17992384	22 Nov 2022	/	/
US	18183601	14 Mar 2023	/	/
US	18190323	27 Mar 2023	/	/
US	18140123	27 Apr 2023	/	/
US	18145446	22 Dec 2022	/	/
US	18179678	7 Mar 2023	/	/
US	18183167	14 Mar 2023	/	/



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US	17840806	15 Jun 2022	/	/
US	18324439	26 May 2023	/	/
US	18344552	29 Jun 2023	/	/
US	18342431	27 Jun 2023	/	/
US	18186040	17 Mar 2023	/	/
US	18155455	17 Jan 2023	/	/
US	18341483	26 Jun 2023	/	/
US	18190449	27 Mar 2023	/	/
US	18182933	13 Mar 2023	/	/
US	18189778	24 Mar 2023	/	/
US	18184352	15 Mar 2023	/	/
US	18330030	6 Jun 2023	/	/
US	18177930	3 Mar 2023	/	/
US	18185958	17 Mar 2023	/	/
US	18188224	22 Mar 2023	/	/
US	18303856	20 Apr 2023	/	/
US	18169888	16 Feb 2023	/	/
US	18307325	26 Apr 2023	/	/
US	18178112	3 Mar 2023	/	/
US	18123191	17 Mar 2023	/	/
US	18299723	13 Apr 2023	/	/
US	18181204	9 Mar 2023	/	/
US	18179794	7 Mar 2023	/	/
US	18495071	26 Oct 2023	/	/
US	18300387	13 Apr 2023	/	/
US	18187508	21 Mar 2023	/	/
US	18182603	13 Mar 2023	/	/
US	18320597	19 May 2023	/	/
US	18186390	20 Mar 2023	/	/
US	18221524	13 Jul 2023	/	/
US	18181815	10 Mar 2023	/	/
US	18311719	3 May 2023	/	/
US	18322865	24 May 2023	/	/
US	18147608	28 Dec 2022	/	/
US	18146662	27 Dec 2022	/	/
US	18364222	2 Aug 2023	/	/
US	18325837	30 May 2023	/	/
US	18306557	25 Apr 2023	/	/

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US	18237514	24 Aug 2023	/	/
US	18300083	13 Apr 2023	/	/
US	18494604	25 Oct 2023	/	/
US	18308405	27 Apr 2023	/	/
US	18335731	15 Jun 2023	/	/
US	18325566	30 May 2023	/	/
US	18361014	28 Jul 2023	/	/
US	18339581	22 Jun 2023	/	/
US	18185949	17 Mar 2023	/	/
US	18323249	24 May 2023	/	/
US	18306719	25 Apr 2023	/	/
US	18327029	31 May 2023	/	/
US	18350340	11 Jul 2023	/	/
US	18342677	27 Jun 2023	12017642	25 Jun 2024
US	18300181	13 Apr 2023	/	/
US	18307615	26 Apr 2023	/	/
US	18188069	22 Mar 2023	/	/
US	18322001	23 May 2023	/	/
US	17896719	26 Aug 2022	/	/
US	18185839	17 Mar 2023	/	/
US	18185988	17 Mar 2023	/	/
US	18184892	16 Mar 2023	/	/
US	18341617	26 Jun 2023	/	/
US	18348159	6 Jul 2023	/	/
US	17872066	25 Jul 2022	/	/
US	18324435	26 May 2023	/	/
US	18324422	26 May 2023	/	/
US	18342497	27 Jun 2023	/	/
US	18359403	26 Jul 2023	/	/
US	18467470	14 Sep 2023	/	/
US	18511141	16 Nov 2023	/	/
US	18456681	28 Aug 2023	/	/
US	18210815	16 Jun 2023	/	/
US	18371921	22 Sep 2023	/	/
US	18590616	28 Feb 2024	/	/
US	18486707	13 Oct 2023	/	/
US	18468277	15 Sep 2023	/	/
US	18481487	5 Oct 2023	/	/

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US	18345739	30 Jun 2023	/	/
US	18521128	28 Nov 2023	/	/
US	18473486	25 Sep 2023	/	/
US	18356847	21 Jul 2023	/	/
US	18345631	30 Jun 2023	/	/
US	18361650	28 Jul 2023	/	/
US	18371879	22 Sep 2023	/	/
US	18341514	26 Jun 2023	/	/
US	18452401	18 Aug 2023	/	/
US	18476726	28 Sep 2023	/	/
US	18363278	1 Aug 2023	/	/
US	18524591	30 Nov 2023	/	/
US	18739061	10 Jun 2024	/	/
US	18468407	15 Sep 2023	/	/
US	18452403	18 Aug 2023	/	/
US	18356996	21 Jul 2023	/	/
US	18452384	18 Aug 2023	/	/
US	18647644	26 Apr 2024	/	/
US	18503405	7 Nov 2023	/	/
US	18344386	29 Jun 2023	/	/
US	18496505	27 Oct 2023	/	/
US	18467817	15 Sep 2023	/	/
US	18405817	5 Jan 2024	/	/
US	18400859	29 Dec 2023	/	/
US	18464913	11 Sep 2023	/	/
US	18344268	29 Jun 2023	/	/
US	18471596	21 Sep 2023	/	/
US	18464062	8 Sep 2023	/	/
US	18541418	15 Dec 2023	/	/
US	18585282	23 Feb 2024	/	/
US	18449504	14 Aug 2023	/	/
US	18475857	27 Sep 2023	/	/
US	18474745	26 Sep 2023	/	/
US	18496237	27 Oct 2023	/	/
US	18468295	15 Sep 2023	/	/
US	18472376	22 Sep 2023	/	/
US	18237802	24 Aug 2023	/	/
US	18597802	6 Mar 2024	/	/

Country	Application No.	Filing Date	Grant No.	Grant Date
US	18494949	26 Oct 2023	/	/
US	18394956	22 Dec 2023	/	/
US	18495062	26 Oct 2023	/	/
US	18738768	10 Jun 2024	/	/
US	18364014	2 Aug 2023	/	/
US	18615616	25 Mar 2024	/	/
US	18468143	15 Sep 2023	/	/
US	18590621	28 Feb 2024	/	/
US	18471674	21 Sep 2023	/	/
US	18398614	28 Dec 2023	/	/
US	18424238	26 Jan 2024	/	/
US	18232255	9 Aug 2023	/	/
US	18425397	29 Jan 2024	/	/
US	18484886	11 Oct 2023	/	/
US	18472013	21 Sep 2023	/	/
US	18471686	21 Sep 2023	/	/
US	18456050	25 Aug 2023	/	/
US	18526319	1 Dec 2023	/	/
US	18471639	21 Sep 2023	/	/
US	18587159	26 Feb 2024	/	/
US	18584834	22 Feb 2024	/	/
US	18492157	23 Oct 2023	/	/
US	18511105	16 Nov 2023	/	/
US	18400381	29 Dec 2023	/	/
US	18435686	7 Feb 2024	/	/
US	18494080	25 Oct 2023	/	/
US	18437693	9 Feb 2024	/	/
US	18427356	30 Jan 2024	/	/
US	18398606	28 Dec 2023	/	/
US	18446719	9 Aug 2023	/	/
US	18446807	9 Aug 2023	/	/
US	18383957	26 Oct 2023	/	/
US	18431700	2 Feb 2024	/	/
US	18591600	29 Feb 2024	/	/
US	18586168	23 Feb 2024	/	/
US	18408815	10 Jan 2024	/	/
US	18486843	13 Oct 2023	/	/
US	18588925	27 Feb 2024	/	/

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US	18419706	23 Jan 2024	/	/
US	18417873	19 Jan 2024	/	/
US	18497505	30 Oct 2023	/	/
US	18401118	29 Dec 2023	/	/
US	18488216	17 Oct 2023	/	/
US	17563025	27 Dec 2021	11686841	27 Jun 2023
US	18488647	17 Oct 2023	/	/
US	18418702	22 Jan 2024	/	/
US	18407961	9 Jan 2024	/	/
US	18609305	19 Mar 2024	/	/
US	18489647	18 Oct 2023	/	/
US	18510257	15 Nov 2023	/	/
US	18486519	13 Oct 2023	/	/
US	18585740	23 Feb 2024	/	/
US	18408906	10 Jan 2024	/	/
US	18486900	13 Oct 2023	/	/
US	18616823	26 Mar 2024	/	/
US	18423331	26 Jan 2024	/	/
US	18602864	12 Mar 2024	/	/
US	18425360	29 Jan 2024	/	/
US	18405855	5 Jan 2024	/	/
US	18372456	25 Sep 2023	/	/
US	18598914	7 Mar 2024	/	/
US	18425750	29 Jan 2024	/	/
US	18514684	20 Nov 2023	/	/
US	18633676	12 Apr 2024	/	/
US	18674319	24 May 2024	/	/
US	18647621	26 Apr 2024	/	/
US	18607370	15 Mar 2024	/	/
US	18673609	24 May 2024	/	/
US	18522931	29 Nov 2023	/	/
US	18677163	29 May 2024	/	/
US	18602628	12 Mar 2024	/	/
US	18492446	23 Oct 2023	/	/
US	18511713	16 Nov 2023	/	/
US	18620053	28 Mar 2024	/	/
US	18397864	27 Dec 2023	/	/
US	18620087	28 Mar 2024	/	/

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US	18615180	25 Mar 2024	/	/
US	18426254	29 Jan 2024	/	/
US	18431735	2 Feb 2024	/	/
US	18399227	28 Dec 2023	/	/
US	18664682	15 May 2024	/	/
US	18524886	30 Nov 2023	/	/
US	18407133	8 Jan 2024	/	/
US	18677174	29 May 2024	/	/
US	18439456	12 Feb 2024	/	/
US	18436738	8 Feb 2024	/	/
US	18746754	18 Jun 2024	/	/
US	18400108	29 Dec 2023	/	/
US	18436619	8 Feb 2024	/	/
US	18431430	2 Feb 2024	/	/
US	18406234	8 Jan 2024	/	/
US	18400283	29 Dec 2023	/	/
US	18746540	18 Jun 2024	/	/
US	18640437	19 Apr 2024	/	/
US	18400046	29 Dec 2023	/	/
US	18400721	29 Dec 2023	/	/
US	18396422	26 Dec 2023	/	/
US	18400118	29 Dec 2023	/	/
US	18600374	8 Mar 2024	/	/
US	18436857	8 Feb 2024	/	/
US	18744100	14 Jun 2024	/	/
US	18619967	28 Mar 2024	/	/
US	18673626	24 May 2024	/	/
US	18408219	9 Jan 2024	/	/
US	18665741	16 May 2024	/	/
US	18405354	5 Jan 2024	/	/
US	18596829	6 Mar 2024	/	/
US	18665754	16 May 2024	/	/
US	18677215	29 May 2024	/	/
US	18604741	14 Mar 2024	/	/
US	18626820	4 Apr 2024	/	/
US	18759336	28 Jun 2024	/	/
US	18665167	15 May 2024	/	/
US	18641127	19 Apr 2024	/	/

Country	Application No.	Filing Date	Grant No.	Grant Date
US	18612751	21 Mar 2024	/	/
US	18649807	29 Apr 2024	/	/
US	18633008	11 Apr 2024	/	/
US	18737429	7 Jun 2024	/	/
US	18513182	17 Nov 2023	/	/
US	18640536	19 Apr 2024	/	/
US	18661015	10 May 2024	/	/
US	18641748	22 Apr 2024	/	/
US	18632036	10 Apr 2024	/	/
US	18613631	22 Mar 2024	/	/
US	18614676	24 Mar 2024	/	/
US	18413050	16 Jan 2024	/	/
US	18660945	10 May 2024	/	/
US	18436695	8 Feb 2024	/	/
US	18526627	1 Dec 2023	/	/
US	18645021	24 Apr 2024	/	/
US	18647625	26 Apr 2024	/	/
US	18804220	14 Aug 2024	/	/
US	18644260	24 Apr 2024	/	/
US	18749888	21 Jun 2024	/	/
US	18645945	25 Apr 2024	/	/
US	18641758	22 Apr 2024	/	/
US	18672737	23 May 2024	/	/
US	18759604	28 Jun 2024	/	/
US	18806421	15 Aug 2024	/	/
US	18658148	8 May 2024	/	/
US	18440683	13 Feb 2024	/	/
US	18442407	15 Feb 2024	/	/
US	18650959	30 Apr 2024	/	/
US	18647468	26 Apr 2024	/	/
US	18675599	28 May 2024	/	/
US	18672249	23 May 2024	/	/
US	18651916	1 May 2024	/	/
US	18673590	24 May 2024	/	/
US	18621522	29 Mar 2024	/	/
US	29828603	28 Feb 2022	D1038037	6 Aug 2024
US	29828606	28 Feb 2022	D1037170	30 Jul 2024
US	18591674	29 Feb 2024	/	/

Country	Application No.	Filing Date	Grant No.	Grant Date
US	18678119	30 May 2024	/	/
US	18737114	7 Jun 2024	/	/
US	18739650	11 Jun 2024	/	/
US	18773905	16 Jul 2024	/	/
US	18743983	14 Jun 2024	/	/
US	18613341	22 Mar 2024	/	/
US	18758864	28 Jun 2024	/	/
US	18677123	29 May 2024	/	/
US	18744557	14 Jun 2024	/	/
US	18749258	20 Jun 2024	/	/
US	18640498	19 Apr 2024	/	/
US	18901338	30 Sep 2024	/	/
US	18641822	22 Apr 2024	/	/
US	18746982	18 Jun 2024	/	/
US	18744119	14 Jun 2024	/	/
US	18743835	14 Jun 2024	/	/
US	18667359	17 May 2024	/	/
US	18680905	31 May 2024	/	/
US	18786406	26 Jul 2024	/	/
US	18812616	22 Aug 2024	/	/
US	18816094	27 Aug 2024	/	/
US	18810234	20 Aug 2024	/	/
US	18745783	17 Jun 2024	/	/
US	18677227	29 May 2024	/	/
US	18787775	29 Jul 2024	/	/
US	18807299	16 Aug 2024	/	/
US	18670800	22 May 2024	/	/
US	18799394	9 Aug 2024	/	/
US	18794372	5 Aug 2024	/	/
US	18785616	26 Jul 2024	/	/
US	18884497	13 Sep 2024	/	/
US	18829479	10 Sep 2024	/	/
US	18920299	18 Oct 2024	/	/
US	29869437	30 Dec 2022	/	/
US	29869426	30 Dec 2022	/	/
US	29869420	30 Dec 2022	/	/
US	29869438	30 Dec 2022	/	/
US	29870370	24 Jan 2023	/	/



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US	29911661	7 Sep 2023	/	/
US	29912517	20 Sep 2023	/	/
US	18653405	2 May 2024	/	/
US	18597468	6 Mar 2024	/	/
US	18823001	3 Sep 2024	/	/
US	63561876	6 Mar 2024	/	/
US	18779232	22 Jul 2024	/	/