

PATENT ASSIGNMENT COVER SHEET

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Assignment ID: PATI324598

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	Rockwell Automation, Inc.	06/25/2024
RECEIVING PARTY DATA		
Company Name:	Rockwell Automation Technologies, Inc.	
Street Address:	1 Allen-Bradley Drive	
City:	Mayfield Heights	
State/Country:	OHIO	
Postal Code:	44124	
PROPERTY NUMBERS Total: 99		
Property Type	Number	
Application Number:	17574981	
Application Number:	17471342	
Application Number:	18078150	
Application Number:	17462956	
Application Number:	17185503	
Application Number:	17201111	
Application Number:	17195996	
Application Number:	17100981	
Application Number:	18471626	
Application Number:	17525405	
Application Number:	18534005	
Application Number:	17864623	
Application Number:	18316724	
Application Number:	18455243	
Application Number:	18096647	
Application Number:	18440223	
Application Number:	18296279	
Application Number:	17476937	
Application Number:	18296240	
Application Number:	17523219	

Property Type	Number
Application Number:	17162481
Application Number:	17470087
Application Number:	18645748
Application Number:	18678811
Application Number:	18462060
Application Number:	18415338
Patent Number:	11555704
Patent Number:	11898849
Patent Number:	11256270
Patent Number:	8548646
Patent Number:	9606544
Patent Number:	10120390
Patent Number:	10845822
Patent Number:	11460863
Patent Number:	9663025
Patent Number:	10259382
Patent Number:	10682948
Patent Number:	11142118
Patent Number:	9804594
Patent Number:	10012981
Patent Number:	10990093
Patent Number:	11906961
Patent Number:	9963155
Patent Number:	10814891
Patent Number:	11225275
Patent Number:	10625611
Patent Number:	9891630
Patent Number:	10191494
Patent Number:	11586208
Patent Number:	10662045
Patent Number:	11167964
Patent Number:	10241515
Patent Number:	10990100
Patent Number:	10462076
Patent Number:	11799806
Patent Number:	10245935
Patent Number:	10618401
Patent Number:	10974585

Property Type	Number
Patent Number:	11392121
Patent Number:	11520333
Patent Number:	11422569
Patent Number:	11001446
Patent Number:	10880412
Patent Number:	11119476
Patent Number:	11796999
Patent Number:	10701622
Patent Number:	11343758
Patent Number:	11802933
Patent Number:	10634504
Patent Number:	11209277
Patent Number:	11518029
Patent Number:	11872706
Patent Number:	10928835
Patent Number:	11556136
Patent Number:	11687096
Patent Number:	10990919
Patent Number:	11842315
Patent Number:	10885495
Patent Number:	11587033
Patent Number:	11097736
Patent Number:	11945443
Patent Number:	11287831
Patent Number:	10585440
Patent Number:	11054840
Patent Number:	11960300
Patent Number:	11144051
Patent Number:	11650583
Patent Number:	11148698
Patent Number:	11132898
Patent Number:	11235778
Patent Number:	11648953
Patent Number:	11390277
Patent Number:	11938932
Patent Number:	11200760
Patent Number:	9016220
Patent Number:	11649147

Property Type	Number
Patent Number:	11975955
Patent Number:	D812663
Patent Number:	D911653

CORRESPONDENCE DATA

Fax Number: 4143824900
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: (414)382-4946
Email: lhkasulke@rockwellautomation.com
Correspondent Name: Linda Kasulke
Address Line 1: 1201 South Second Street
Address Line 2: 7C19
Address Line 4: MILWAUKEE, WISCONSIN 53204

ATTORNEY DOCKET NUMBER:	RAI to RATI for Clearpath
NAME OF SUBMITTER:	LINDA H KASULKE
SIGNATURE:	LINDA H KASULKE
DATE SIGNED:	06/27/2024

Total Attachments: 10
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page9.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page3.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page6.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page7.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page8.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page5.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page2.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page4.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page10.tiff
source=Patent assignment RAI to RATI for Clearpath dated 6.25.24 with Exhibit A#page1.tiff

PATENT ASSIGNMENT FORM
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
ASSIGNMENT

Whereas, Rockwell Automation Inc., a corporation organized and existing under the laws of the State of Delaware and having its principal place of business at 1201 South Second Street, Milwaukee, Wisconsin 53204, U.S.A. ("Assignor"), owns certain patent applications and/or registrations, as set forth in SCHEDULE A attached hereto and incorporated herein by this reference ("Patents"); and

Whereas, Rockwell Automation Technologies, Inc., a corporation organized and existing under the laws of the State of Ohio and having its principal place of business at 1 Allen-Bradley Drive, Mayfield Heights, Ohio, 44124, U.S.A. ("Assignee"), desires to acquire all of the right, title and interest in, to and under the Patents;

Whereas, Assignor and Assignee have entered into an Intellectual Asset Assignment Agreement, dated June 22, 2024, assigning, among other things, all right, title and interest in and to the Patents from Assignor to Assignee;

Now, therefore, in consideration of the foregoing and good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which hereby is acknowledged, Assignor does hereby sell, assign, transfer and convey unto Assignee its entire right, title and interest in and to the Patents, including all divisions, continuations, continuations-in-part, reexaminations, substitutions, reissues, extensions and renewals of the applications and registrations for the Patents (and right to apply for any of the foregoing); all rights to causes of action and remedies related thereto (including, without limitation, the right to sue for past, present or future infringement), misappropriation or violation of rights related to the foregoing); and any and all other interests arising out of, in connection with or in relation to the Patents.

In Witness Whereof, Assignor has caused this ASSIGNMENT to be duly executed by an authorized officer of the 25th day of June, 2024.

By: _____

John Miller

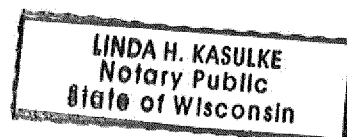
Vice President & Chief IP Counsel for Rockwell Automation Inc.

On June 25, 2024, before me, the undersigned notary public in and for Milwaukee County, the State of Wisconsin, personally appeared John Miller, personally known to me, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity and that, by his signature on the instrument, the person on the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

Linda H. Kasulke

my commission expires May 14, 2026



	Title	Application Number
23	ELECTRIC VEHICLE CHARGING INTERFACE DEVICE	62/303104
24	SYSTEMS AND METHODS FOR USING HUMAN-OPERATED MATERIAL-TRANSPORT VEHICLES WITH FLEET-MANAGEMENT SYSTEMS	62/449264
25	APPARATUS, SYSTEMS, AND METHODS FOR OPERATING AND MAINTAINING ELECTRICALLY-POWERED MATERIAL-TRANSPORT VEHICLES	62/451905
26	SYSTEMS AND METHODS FOR TRACTION DETECTION AND CONTROL IN A SELF-DRIVING VEHICLE	62/464470
27	SYSTEMS AND METHODS FOR AUTONOMOUS PROVISION REPLENISHMENT	62/476960
28	SYSTEMS AND METHODS FOR AUTONOMOUS LINESIDE PARTS DELIVERY TO AN ASSEMBLY LINE PROCESS	62/477047
29	SYSTEMS AND METHODS FOR FLEXIBLE MANUFACTURING USING SELF-DRIVING VEHICLES	62/477108
30	SYSTEMS AND METHODS FOR PROCESS TENDING WITH A ROBOT ARM	62/511123
31	SYSTEMS AND METHODS FOR ELECTRONIC MAPPING AND LOCALIZATION WITHIN A FACILITY	62/515744
32	SYSTEMS AND METHODS FOR WIFI MAPPING IN AN INDUSTRIAL FACILITY	62/525161
33	SYSTEMS AND METHODS FOR MONITORING A SELF-DRIVING VEHICLE	62/537195
34	SYSTEMS AND METHODS FOR COMMUNICATING BETWEEN A FLEET OF ROBOTS AND A FLEET MANAGER	62/548066
35	APPARATUS, SYSTEMS, AND METHODS FOR PAYLOAD PICK-UP AND DROP-OFF WITH A SELF-DRIVING MATERIAL-TRANSPORT VEHICLE	62/552725
36	SYSTEMS AND METHODS FOR GENERATING A MISSION FOR A SELF-DRIVING MATERIAL-TRANSPORT VEHICLE	62/552728
37	SYSTEMS AND METHODS FOR OPERATING ROBOTIC EQUIPMENT IN CONTROLLED ZONES	62/579408
38	SYSTEMS AND METHODS FOR UPDATING AN ELECTRONIC MAP	62/584238
39	SYSTEMS AND METHODS FOR MEASURING FLEETS OF SELF-DRIVING INDUSTRIAL VEHICLES	62/620184
40	SYSTEMS AND METHODS FOR MAINTAINING VEHICLE STATE INFORMATION	62/621519
41	COMMUNICATION SYSTEMS FOR SELF-DRIVING VEHICLES, AND METHODS OF PROVIDING THEREOF	62/627301
42	SYSTEMS AND METHODS FOR REMOTE VIEWING OF SELF-DRIVING VEHICLES	62/636245
43	MATERIALS HANDLING CART	62/720854
44	SYSTEMS AND METHODS FOR SELF-DRIVING VEHICLE TRAFFIC MANAGEMENT	62/754511

	Title	Application Number	Priority	Rockwell Family
14	SYSTEMS AND METHODS FOR AUTONOMOUS LINESIDE PARTS DELIVERY TO AN ASSEMBLY LINE PROCESS	18/455243	17/212922	2024P-369
15	SYSTEMS AND METHODS FOR AUTONOMOUS PROVISION REPLENISHMENT	18/096647	17/105816	2024P-372
16	SYSTEMS AND METHODS FOR USING HUMAN-OPERATED MATERIAL-TRANSPORT VEHICLES WITH FLEET-MANAGEMENT SYSTEMS	18/440,223	17/325298	2024P-378-CON3
17	SYSTEMS AND METHODS FOR REMOTE VIEWING OF SELF-DRIVING VEHICLES	18/296279	17/475684	2024P-381
18	MATERIALS HANDLING CART	17/476937	16/546765	2024P-383
19	SYSTEMS AND METHODS FOR MAINTAINING VEHICLE STATE INFORMATION	18/296240	17/553662	2024P-388
20	SYSTEMS AND METHODS FOR MEASURING FLEETS OF SELF-DRIVING INDUSTRIAL VEHICLES	17/523219	16/253305	2024P-393
21	SYSTEMS AND METHODS FOR MONITORING AN OPERATION OF ONE OR MORE SELF-DRIVING VEHICLES	17/162481	62/964231	2024P-399
22	SYSTEMS AND METHODS FOR OPERATING ONE OR MORE SELF-DRIVING VEHICLES	17/470087	63/076661	2024P-401
23	SYSTEMS AND METHODS FOR OPERATING ONE OR MORE SELF-DRIVING VEHICLES	18/645,748	17/470087	2024P-401-CON1
24	SYSTEMS AND METHODS FOR OPERATING ONE OR MORE SELF-DRIVING VEHICLES	18/678,811	17/470087	2024P-401-CON2
25	SYSTEMS AND METHODS FOR OPERATING A MOBILE ROBOT	18/462060	63/407889	2024P-403
26	SYSTEMS AND METHODS FOR CHARACTERIZING A VEHICLE MOTION OF AN AUTONOMOUS MOBILE ROBOT	18/415338	N/A	2024P-404

II. Issued Patents (73)

	Title	Application Number	Priority	Patent Number	Rockwell Family
1	SYSTEMS AND METHODS FOR UPDATING AN ELECTRONIC MAP	16/185077	62/584238	11555704	2024P-300-US
2	SYSTEMS AND METHODS FOR UPDATING AN ELECTRONIC MAP	18/066629	16/185077	11898849	2024P-301-US
3	COMMUNICATION SYSTEMS FOR SELF-DRIVING VEHICLES, AND METHODS OF PROVIDING THEREOF	16/268555	62/627301	11256270	2024P-304-US
4	DISTRIBUTED HARDWARE ARCHITECTURE FOR UNMANNED VEHICLES	13/099445	61/282991	8548646	2024P-306-US

	Title	Application Number	Priority	Patent Number	Rockwell Family
41	SYSTEMS AND METHODS FOR WIFI MAPPING IN AN INDUSTRIAL FACILITY	16/882628	16/018211	11343758	2024P-354-US
42	SYSTEMS AND METHODS FOR WIFI MAPPING IN AN INDUSTRIAL FACILITY	17/729026	16/882628	11802933	2024P-355-US
43	SYSTEMS AND METHODS FOR ELECTRONIC MAPPING AND LOCALIZATION WITHIN A FACILITY	16/000331	62/515744	10634504	2024P-356-US
44	SYSTEMS AND METHODS FOR ELECTRONIC MAPPING AND LOCALIZATION WITHIN A FACILITY	16/829395	16/000331	11209277	2024P-357-US
45	SYSTEMS AND METHODS FOR PROCESS TENDING WITH A ROBOT ARM	16/561519	62/511123	11518029	2024P-359-US
46	SYSTEMS AND METHODS FOR PROCESS TENDING WITH A ROBOT ARM	17/979597	16/561519	11872706	2024P-360-US
47	SYSTEMS AND METHODS FOR FLEXIBLE MANUFACTURING USING SELF-DRIVING VEHICLES	15/936880	62/477108	10928835	2024P-363-US
48	SYSTEMS AND METHODS FOR FLEXIBLE MANUFACTURING USING SELF-DRIVING VEHICLES	17/153133	15/936880	11556136	2024P-364-US
49	SYSTEMS AND METHODS FOR FLEXIBLE MANUFACTURING USING SELF-DRIVING VEHICLES	18/079442	17/153133	11687096	2024P-365-US
50	SYSTEMS AND METHODS FOR AUTONOMOUS LINESIDE PARTS DELIVERY TO AN ASSEMBLY LINE PROCESS	15/936977	62/477047	10990919	2024P-367-US
51	SYSTEMS AND METHODS FOR AUTONOMOUS LINESIDE PARTS DELIVERY TO AN ASSEMBLY LINE PROCESS	17/212922	15/936977	11842315	2024P-368-US
52	SYSTEMS AND METHODS FOR AUTONOMOUS PROVISION REPLENISHMENT	15/936874	62/476960	10885495	2024P-370-US
53	SYSTEMS AND METHODS FOR AUTONOMOUS PROVISION REPLENISHMENT	17/105816	15/936874	11587033	2024P-371-US
54	SYSTEMS AND METHODS FOR TRACTION DETECTION AND CONTROL IN A SELF-DRIVING VEHICLE	15/904592	62/464470	11097736	2024P-373-US
55	SYSTEMS AND METHODS FOR TRACTION DETECTION AND CONTROL IN A SELF-DRIVING VEHICLE	17/375265	15/904592	11945443	2024P-374-US
56	APPARATUS, SYSTEMS, AND METHODS FOR OPERATING AND MAINTAINING ELECTRICALLY-POWERED MATERIAL-TRANSPORT VEHICLES	16/447163	62/451905	11287831	2024P-375-US

	Title	Application Number	Priority	Patent Number	Rockwell Family
57	SYSTEMS AND METHODS FOR USING HUMAN-OPERATED MATERIAL-TRANSPORT VEHICLES WITH FLEET-MANAGEMENT SYSTEMS	15/877299	62/449264	10585440	2024P-376-US
58	SYSTEMS AND METHODS FOR USING HUMAN-OPERATED MATERIAL-TRANSPORT VEHICLES WITH FLEET-MANAGEMENT SYSTEMS	16/778090	15/877299	11054840	2024P-377-US
59	SYSTEMS AND METHODS FOR USING HUMAN-OPERATED MATERIAL-TRANSPORT VEHICLES WITH FLEET-MANAGEMENT SYSTEMS	17/325298	16/778090	11960300	2024P-378-US
60	SYSTEMS AND METHODS FOR REMOTE VIEWING OF SELF-DRIVING VEHICLES	16/288228	62/636245	11144051	2024P-379-US
61	SYSTEMS AND METHODS FOR REMOTE VIEWING OF SELF-DRIVING VEHICLES	17/475684	16/288228	11650583	2024P-380-US
62	MATERIALS HANDLING CART	16/546765	62/777821	11148698	2024P-382-US
63	SYSTEMS AND METHODS FOR SELF-DRIVING VEHICLE TRAFFIC MANAGEMENT	16/664054	62/754511	11132898	2024P-384-US
64	SYSTEMS AND METHODS FOR MAINTAINING VEHICLE STATE INFORMATION	16/253308	62/621519	11235778	2024P-386-US
65	SYSTEMS AND METHODS FOR MAINTAINING VEHICLE STATE INFORMATION	17/553662	16/253308	11648953	2024P-387-US
66	SYSTEMS AND METHODS FOR SELF-DRIVING VEHICLE COLLISION PREVENTION	16/699015	62/773445	11390277	2024P-389-US
67	SYSTEMS AND METHODS FOR SELF-DRIVING VEHICLE COLLISION PREVENTION	17/840915	16/699015	11938932	2024P-390-US
68	SYSTEMS AND METHODS FOR MEASURING FLEETS OF SELF-DRIVING INDUSTRIAL VEHICLES	16/253305	62/620184	11200760	2024P-392-US
69	VARIABLE GEOMETRY WATER VESSEL	14/027790	61/743958	9016220	2024P-394-US
70	AUTONOMOUS MATERIAL TRANSPORT VEHICLES, AND SYSTEMS AND METHODS OF OPERATING THEREOF	17/021406	62/903292	11649147	2024P-395-US
71	AUTONOMOUS MATERIAL TRANSPORT VEHICLES, AND SYSTEMS AND METHODS OF OPERATING THEREOF	18/296788	17/021406	11975955	2024P-396-US
72	AUTONOMOUS MOBILE ROBOT	29/558800	N/A	D812663	2024P-405-US
73	CART	29/680451	N/A	D911653	2024P-406-US

III. Expired or Abandoned Patents & Applications (46)

	Title	Application Number
1	SYSTEMS AND METHODS FOR MAINTAINING VEHICLE STATE INFORMATION	18/296240
2	SYSTEMS AND METHODS FOR REMOTE VIEWING OF SELF-DRIVING VEHICLES	18/296279
3	PALLET DETECTION	18/296788
4	SYSTEMS AND METHODS FOR TRACTION DETECTION AND CONTROL IN A SELF-DRIVING VEHICLE	17/375265
5	SYSTEMS AND METHODS FOR MONITORING A SELF-DRIVING VEHICLE	17/400433
6	CONTROL AUGMENTATION APPARATUS AND METHOD FOR AUTOMATED GUIDED VEHICLES	17/462956
7	HIGH PERFORMANCE SELF-DRIVING VEHICLES SYSTEM AND METHODS	17/470087
8	COMMUNICATION SYSTEMS FOR SELF-DRIVING VEHICLES, AND METHODS OF PROVIDING THEREOF	17/574981
9	SYSTEMS AND METHODS FOR WIFI MAPPING IN AN INDUSTRIAL FACILITY	17/729026
10	SYSTEMS AND METHODS FOR SELF-DRIVING VEHICLE COLLISION PREVENTION	17/840915
11	SYSTEMS AND METHODS FOR LOGGING SALIENT INFORMATION	62/964231
12	SYSTEMS AND METHODS FOR DESIGNING SAFE AUTONOMOUS SYSTEMS	63/407889
13	DISTRIBUTED HARDWARE ARCHITECTURE FOR UNMANNED VEHICLES	61/282991
14	VARIABLE GEOMETRY WATER VESSEL	61/743958
15	VARIABLE REFERENCE FRAMES IN UNMANNED VEHICLES	62/068177
16	SYSTEM, COMPUTING DEVICE AND METHOD FOR UNMANNED VEHICLE FLEET CONTROL	62/073355
17	SELF-CALIBRATING SENSORS AND ACTUATORS FOR UNMANNED VEHICLES	62/076569
18	METHOD, SYSTEM AND APPARATUS FOR HANDLING OPERATIONAL CONSTRAINTS FOR CONTROL OF UNMANNED VEHICLES	62/168511
19	METHOD, SYSTEM AND APPARATUS FOR PATH CONTROL IN UNMANNED VEHICLES	62/168532
20	MOBILE PLATFORM FOR MATERIALS TRANSPORT	62/219696
21	LIGHTING CONTROL SYSTEM AND METHOD FOR AUTONOMOUS VEHICLES	62/220391
22	CONTROL AUGMENTATION APPARATUS AND METHOD FOR AUTOMATED GUIDED VEHICLES	62/293948

	Title	Application Number	Priority	Patent Number	Rockwell Family
24	CONTROL AUGMENTATION APPARATUS AND METHOD FOR AUTOMATED GUIDED VEHICLES	15/429222	62/293948	10662045	2024P-329-US
25	CONTROL AUGMENTATION APPARATUS AND METHOD FOR AUTOMATED GUIDED VEHICLES	16/855788	15/429222	11167964	2024P-330-US
26	METHOD, SYSTEM AND APPARATUS FOR HANDLING OPERATIONAL CONSTRAINTS FOR CONTROL OF UNMANNED VEHICLES	15/167002	62/168511	10241515	2024P-332-US
27	METHOD, SYSTEM AND APPARATUS FOR HANDLING OPERATIONAL CONSTRAINTS FOR CONTROL OF UNMANNED VEHICLES	16/290380	15/167002	10990100	2024P-333-US
28	SYSTEM, APPARATUS AND METHOD FOR AUTOMATIC ENVIRONMENTAL DATA COLLECTION AND ANALYSIS	14/270882		10462076	2024P-335-US
29	SYSTEM, APPARATUS AND METHOD FOR AUTOMATIC ENVIRONMENTAL DATA COLLECTION AND ANALYSIS	16/574530	14/270882	11799806	2024P-336-US
30	MOBILE PLATFORM FOR MATERIALS TRANSPORT	15/257233	62/219696	10245935	2024P-338-US
31	MOBILE PLATFORM FOR MATERIALS TRANSPORT	16/289704	15/257233	10618401	2024P-339-US
32	MOBILE PLATFORM FOR MATERIALS TRANSPORT	16/808508	16/289704	10974585	2024P-340-US
33	SYSTEMS AND METHODS FOR OPERATING ROBOTIC EQUIPMENT IN CONTROLLED ZONES	16/176674	62/579408	11392121	2024P-342-US
34	SYSTEMS AND METHODS FOR OPERATING ROBOTIC EQUIPMENT IN CONTROLLED ZONES	17/835420	16/176674	11520333	2024P-343-US
35	SYSTEMS AND METHODS FOR GENERATING A MISSION FOR A SELF-DRIVING MATERIAL-TRANSPORT VEHICLE	16/118590	62/552728	11422569	2024P-345-US
36	APPARATUS, SYSTEMS, AND METHODS FOR PAYLOAD PICK-UP AND DROP-OFF WITH A SELF-DRIVING MATERIAL-TRANSPORT VEHICLE	16/118594	62/552725	11001446	2024P-346-US
37	SYSTEMS AND METHODS FOR COMMUNICATING BETWEEN A FLEET OF ROBOTS AND A FLEET MANAGER	16/106196	62/548066	10880412	2024P-348-US
38	SYSTEMS AND METHODS FOR MONITORING A SELF-DRIVING VEHICLE	16/044598	62/537195	11119476	2024P-350-US
39	SYSTEMS AND METHODS FOR MONITORING A SELF-DRIVING VEHICLE	17/400433	16/044598	11796999	2024P-351-US
40	SYSTEMS AND METHODS FOR WIFI MAPPING IN AN INDUSTRIAL FACILITY	16/018211	62/525161	10701622	2024P-353-US

SCHEDULE A

Patents

I. Pending Patent Applications (26)

	Title	Application Number	Priority	Rockwell Family
1	COMMUNICATION SYSTEMS FOR SELF-DRIVING VEHICLES, AND METHODS OF PROVIDING THEREOF	17/574981	62/627301	2024P-305
2	SYSTEMS AND METHODS FOR AUTONOMOUS VEHICLES WITH LIGHTING CONTROL	17/471342	16/870151	2024P-315
3	VARIABLE REFERENCE FRAMES IN UNMANNED VEHICLES	18/078150	16/248944	2024P-328
4	CONTROL AUGMENTATION APPARATUS AND METHOD FOR AUTOMATED GUIDED VEHICLES	17/462956	62/293948	2024P-331
5	METHOD, SYSTEM AND APPARATUS FOR HANDLING OPERATIONAL CONSTRAINTS FOR CONTROL OF UNMANNED VEHICLES AND METHOD, SYSTEM AND APPARATUS FOR CONTROLLING SELF-DRIVING VEHICLES	17/185503	16/290380	2024P-334
6	A MOBILE PLATFORM FOR MATERIALS TRANSPORT	17/201111	16/808508	2024P-341
7	APPARATUS, SYSTEMS, AND METHODS FOR PAYLOAD PICK-UP AND DROP-OFF WITH A SELF-DRIVING MATERIAL-TRANSP	17/195996	16/118594	2024P-347
8	SYSTEMS AND METHODS FOR COMMUNICATING BETWEEN A FLEET OF ROBOTS AND A FLEET MANAGER	17/100981	16/106196	2024P-349
9	SYSTEMS AND METHODS FOR MONITORING A SELF-DRIVING VEHICLE	18/471626	17/400433	2024P-352
10	SYSTEMS AND METHODS FOR ELECTRONIC MAPPING AND LOCALIZATION WITHIN A FACILITY	17/525405	62/829395	2024P-358
11	SYSTEMS AND METHODS FOR PROCESS TENDING WITH A ROBOT ARM	18/534,005	17/979597	2024P-360-CON3
12	STAND-ALONE SELF-DRIVING MATERIAL-TRANSPORT VEHICLE	17/864623	16/561519	2024P-362
13	SYSTEMS AND METHODS FOR FLEXIBLE MANUFACTURING USING SELF-DRIVING VEHICLES	18/316724	18/079442	2024P-366

	Title	Application Number	Priority	Patent Number	Rockwell Family
5	SYSTEM, COMPUTING DEVICE AND METHOD FOR UNMANNED VEHICLE FLEET CONTROL	14/927930	62/073355	9606544	2024P-307-US
6	SYSTEM, COMPUTING DEVICE, AND METHOD FOR UNMANNED VEHICLE FLEET CONTROL	15/429974	14/927930	10120390	2024P-308-US
7	SYSTEMS AND METHODS FOR UTILIZING FLEETS OF ROBOTS	16/173615	15/429974	10845822	2024P-309-US
8	SYSTEMS AND METHODS FOR UNMANNED VEHICLE FLEET CONTROL	17/065152	16/173615	11460863	2024P-310-US
9	LIGHTING CONTROL SYSTEM AND METHOD FOR AUTONOMOUS VEHICLES	15/259712	62/220391	9663025	2024P-311-US
10	SYSTEMS AND METHODS FOR AUTONOMOUS VEHICLES WITH LIGHTING CONTROL	15/584096	15/259712	10259382	2024P-312-US
11	SYSTEMS AND METHODS FOR AUTONOMOUS VEHICLES WITH LIGHTING CONTROL	16/299882	15/584096	10682948	2024P-313-US
12	SYSTEMS AND METHODS FOR AUTONOMOUS VEHICLES WITH LIGHTING CONTROL	16/870151	16/299882	11142118	2024P-314-US
13	SELF-CALIBRATING SENSORS AND ACTUATORS FOR UNMANNED VEHICLES	14/879210	62/076569	9804594	2024P-316-US
14	SELF-CALIBRATING SENSORS AND ACTUATORS FOR UNMANNED VEHICLES	15/691643	14/879210	10012981	2024P-317-US
15	SYSTEMS AND METHODS FOR UNMANNED VEHICLES HAVING SELF-CALIBRATING SENSORS AND ACTUATORS	16/011760	15/691643	10990093	2024P-318-US
16	SYSTEMS AND METHODS FOR UNMANNED VEHICLES HAVING SELF-CALIBRATING SENSORS AND ACTUATORS	17/220111	16/011760	11906961	2024P-319-US
17	METHOD, SYSTEM AND APPARATUS FOR PATH CONTROL IN UNMANNED VEHICLES	15/164280	62/168532	9963155	2024P-320-US
18	METHOD, SYSTEM AND APPARATUS FOR SELF-DRIVING VEHICLE OBSTACLE AVOIDANCE	15/906654	15/164280	10814891	2024P-321-US
19	METHOD, SYSTEM AND APPARATUS FOR SELF-DRIVING VEHICLE OBSTACLE AVOIDANCE	17/016478	15/906654	11225275	2024P-322-US
20	ELECTRIC VEHICLE CHARGING INTERFACE DEVICE	15/449441	62/303104	10625611	2024P-324-US
21	VARIABLE REFERENCE FRAMES IN UNMANNED VEHICLES	14/883698	62/068177	9891630	2024P-325-US
22	VARIABLE REFERENCE FRAMES IN UNMANNED VEHICLES	15/827391	14/883698	10191494	2024P-326-US
23	SYSTEMS AND METHODS FOR EXECUTING A TASK WITH AN UNMANNED VEHICLE	16/248944	15/827391	11586208	2024P-327-US

	Title	Application Number
45	SYSTEMS AND METHODS FOR SELF-DRIVING VEHICLE COLLISION PREVENTION	62/773445
46	AUTONOMOUS MATERIAL TRANSPORT VEHICLES, AND SYSTEMS AND METHODS OF OPERATING THEREOF	62/903292