

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT8193056

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the CONVEYING PARTY DATA - TCG SENIOR FUNDING L.L.C., AS COLLATERAL AGENT previously recorded on Reel 064532 Frame 0856. Assignor(s) hereby confirms the IROBOT CORPORATION.	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	TCG SENIOR FUNDING L.L.C., AS COLLATERAL AGENT	08/07/2023
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	IROBOT CORPORATION	
<b>Street Address:</b>	8 CROSBY DR 10-2	
<b>City:</b>	BEDFORD	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	01730	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	29457143	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>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.</i>		
<b>Email:</b>	request@slwip.com	
<b>Correspondent Name:</b>	SCHWEGMAN LUNDBERG & WOESSNER, P.A.	
<b>Address Line 1:</b>	P.O. BOX 2938	
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402	
<b>ATTORNEY DOCKET NUMBER:</b>	5329.142US1	
<b>NAME OF SUBMITTER:</b>	NANCY CUNDALL	
<b>SIGNATURE:</b>	/Nancy Cundall/	
<b>DATE SIGNED:</b>	09/28/2023	
<b>Total Attachments: 74</b>		
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT8103720

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
IROBOT CORPORATION	08/07/2023

**RECEIVING PARTY DATA**

<b>Name:</b>	TCG SENIOR FUNDING L.L.C., AS COLLATERAL AGENT
<b>Street Address:</b>	1 VANDERBILT AVENUE
<b>Internal Address:</b>	SUITE 3400
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10017

**PROPERTY NUMBERS Total: 708**

Property Type	Number
Application Number:	10642358
Application Number:	10661835
Application Number:	10739394
Application Number:	10739581
Application Number:	10739902
Application Number:	10739919
Application Number:	10739927
Application Number:	10739935
Application Number:	10739937
Application Number:	10762219
Application Number:	10766303
Application Number:	10931940
Application Number:	10972081
Application Number:	11038714
Application Number:	11055210
Application Number:	11090430
Application Number:	11166891
Application Number:	11166986
Application Number:	11176048

PATENT

Property Type	Number
Application Number:	11207575
Application Number:	11207620
Application Number:	11341111
Application Number:	11359961
Application Number:	11533294
Application Number:	11541422
Application Number:	11541479
Application Number:	11559359
Application Number:	11562877
Application Number:	11584084
Application Number:	11584097
Application Number:	11584355
Application Number:	11633869
Application Number:	11633883
Application Number:	11633885
Application Number:	11633886
Application Number:	11648230
Application Number:	11648241
Application Number:	11688213
Application Number:	11688225
Application Number:	11751267
Application Number:	11751413
Application Number:	11756262
Application Number:	11758289
Application Number:	11773845
Application Number:	11826541
Application Number:	11832616
Application Number:	11834575
Application Number:	11834908
Application Number:	11835356
Application Number:	11835359
Application Number:	11835360
Application Number:	11835363
Application Number:	11860272
Application Number:	11862197
Application Number:	12100782
Application Number:	12101949
Application Number:	12118117

Property Type	Number
Application Number:	12118219
Application Number:	12211938
Application Number:	12255393
Application Number:	12269868
Application Number:	12301263
Application Number:	12332734
Application Number:	12343430
Application Number:	12357151
Application Number:	12406100
Application Number:	12415512
Application Number:	12415554
Application Number:	12429963
Application Number:	12431733
Application Number:	12486820
Application Number:	12488094
Application Number:	12512114
Application Number:	12540884
Application Number:	12610792
Application Number:	12611814
Application Number:	12687436
Application Number:	12724312
Application Number:	12828525
Application Number:	12839793
Application Number:	12839821
Application Number:	12842314
Application Number:	12843656
Application Number:	12928965
Application Number:	12930260
Application Number:	12932779
Application Number:	12940871
Application Number:	12940937
Application Number:	12959429
Application Number:	12966509
Application Number:	12976698
Application Number:	12976786
Application Number:	12985194
Application Number:	12985257
Application Number:	13023444

Property Type	Number
Application Number:	13028996
Application Number:	13032406
Application Number:	13085541
Application Number:	13105872
Application Number:	13105883
Application Number:	13109216
Application Number:	13158365
Application Number:	13184700
Application Number:	13204075
Application Number:	13204299
Application Number:	13241765
Application Number:	13244221
Application Number:	13245095
Application Number:	13245118
Application Number:	13245694
Application Number:	13280813
Application Number:	13291633
Application Number:	13299982
Application Number:	13307893
Application Number:	13314398
Application Number:	13314414
Application Number:	13314556
Application Number:	13323406
Application Number:	13326997
Application Number:	13340784
Application Number:	13340802
Application Number:	13341334
Application Number:	13345270
Application Number:	13360579
Application Number:	13360590
Application Number:	13429830
Application Number:	13436024
Application Number:	13455353
Application Number:	13460261
Application Number:	13460347
Application Number:	13495912
Application Number:	13523109
Application Number:	13562315

Property Type	Number
Application Number:	13613051
Application Number:	13615174
Application Number:	13615381
Application Number:	13632997
Application Number:	13647575
Application Number:	13651080
Application Number:	13673926
Application Number:	13673928
Application Number:	13685476
Application Number:	13688933
Application Number:	13719726
Application Number:	13719784
Application Number:	13722566
Application Number:	13729819
Application Number:	13729894
Application Number:	13731393
Application Number:	13766125
Application Number:	13777648
Application Number:	13781314
Application Number:	13790643
Application Number:	13790867
Application Number:	13803617
Application Number:	13833580
Application Number:	13833631
Application Number:	13833687
Application Number:	13835501
Application Number:	13892453
Application Number:	13893038
Application Number:	13893905
Application Number:	13900767
Application Number:	13913258
Application Number:	13921882
Application Number:	13948059
Application Number:	13958413
Application Number:	13966655
Application Number:	14033922
Application Number:	14036451
Application Number:	14037008



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Application Number:	14039256
Application Number:	14042882
Application Number:	14044170
Application Number:	14044312
Application Number:	14044346
Application Number:	14046940
Application Number:	14046941
Application Number:	14077296
Application Number:	14077380
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Application Number:	14104538
Application Number:	14140099
Application Number:	14158557
Application Number:	14160299
Application Number:	14219625
Application Number:	14221827
Application Number:	14251390
Application Number:	14255880
Application Number:	14258440
Application Number:	14271260
Application Number:	14274227
Application Number:	14275355
Application Number:	14277270
Application Number:	14279598
Application Number:	14291682
Application Number:	14292090
Application Number:	14301454
Application Number:	14302469
Application Number:	14302474
Application Number:	14307402
Application Number:	14325997
Application Number:	14456293
Application Number:	14461733
Application Number:	14475984
Application Number:	14489847
Application Number:	14511947
Application Number:	14512013
Application Number:	14512098

Property Type	Number
Application Number:	14512842
Application Number:	14522445
Application Number:	14522446
Application Number:	14529815
Application Number:	14538349
Application Number:	14546192
Application Number:	14547227
Application Number:	14550743
Application Number:	14550744
Application Number:	14550750
Application Number:	14552612
Application Number:	14566243
Application Number:	14568180
Application Number:	14570616
Application Number:	14572712
Application Number:	14579080
Application Number:	14586099
Application Number:	14587723
Application Number:	14587987
Application Number:	14588077
Application Number:	14589429
Application Number:	14610013
Application Number:	14621052
Application Number:	14622613
Application Number:	14625646
Application Number:	14627823
Application Number:	14634170
Application Number:	14635800
Application Number:	14643410
Application Number:	14643438
Application Number:	14658820
Application Number:	14659705
Application Number:	14661633
Application Number:	14670572
Application Number:	14671304
Application Number:	14674427
Application Number:	14682658
Application Number:	14682760

Property Type	Number
Application Number:	14685029
Application Number:	14698461
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Application Number:	14750563
Application Number:	14789511
Application Number:	14796162
Application Number:	14797709
Application Number:	14799319
Application Number:	14799450
Application Number:	14807485
Application Number:	14808613
Application Number:	14816665
Application Number:	14824940
Application Number:	14828285
Application Number:	14856497
Application Number:	14856501
Application Number:	14856526
Application Number:	14877207
Application Number:	14880610
Application Number:	14924471
Application Number:	14931641
Application Number:	14933443
Application Number:	14933732
Application Number:	14936236
Application Number:	14944152
Application Number:	14944788
Application Number:	14946500
Application Number:	14946999
Application Number:	14947277
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Application Number:	14956523
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Application Number:	15088802
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Application Number:	15147661
Application Number:	15154518
Application Number:	15162756
Application Number:	15174292
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Application Number:	15182849
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Application Number:	15221036
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Application Number:	15229674
Application Number:	15238181
Application Number:	15238633
Application Number:	15244603
Application Number:	15246947
Application Number:	15248352
Application Number:	15252355
Application Number:	15259732
Application Number:	15278772
Application Number:	15331965
Application Number:	15337455
Application Number:	15338164
Application Number:	15340250
Application Number:	15349237
Application Number:	15353368
Application Number:	15355518
Application Number:	15366367
Application Number:	15367047
Application Number:	15368894
Application Number:	15371618
Application Number:	15379796
Application Number:	15380530
Application Number:	15383008
Application Number:	15388776
Application Number:	15389926
Application Number:	15395865
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Property Type	Number
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Application Number:	15451756
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Application Number:	15594222
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Application Number:	15612234
Application Number:	15614844
Application Number:	15620658
Application Number:	15626662
Application Number:	15642226
Application Number:	15646782
Application Number:	15647677
Application Number:	15659345
Application Number:	15687119
Application Number:	15693349
Application Number:	15698005
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Application Number:	15720214
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Application Number:	15726536
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Application Number:	15794543
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Application Number:	15829357
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Application Number:	15854125
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Application Number:	15858912
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Application Number:	15863591
Application Number:	15863681
Application Number:	15863705
Application Number:	15863786
Application Number:	15873107
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Application Number:	15881162
Application Number:	15890496
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Application Number:	15901952
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Application Number:	15921085
Application Number:	15931451
Application Number:	15941763
Application Number:	15943083
Application Number:	15949653
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Application Number:	16032761
Application Number:	16037090
Application Number:	16039070
Application Number:	16045608

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Application Number:	16123994
Application Number:	16125051
Application Number:	16138155
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Application Number:	16184450
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Application Number:	16236844
Application Number:	16239018
Application Number:	16251926
Application Number:	16252460
Application Number:	16264268
Application Number:	16269251
Application Number:	16288699
Application Number:	16369702
Application Number:	16369827
Application Number:	16371929
Application Number:	16382864
Application Number:	16388286
Application Number:	16392065
Application Number:	16396014

Property Type	Number
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Application Number:	16508705
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Application Number:	16531471
Application Number:	16535598
Application Number:	16536815
Application Number:	16536903
Application Number:	16537024
Application Number:	16537155
Application Number:	16538737
Application Number:	16544227
Application Number:	16546711
Application Number:	16548268
Application Number:	16555483
Application Number:	16561606
Application Number:	16564355
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Application Number:	16725107
Application Number:	16739817



Property Type	Number
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Application Number:	16804749
Application Number:	16805274
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Application Number:	16807017
Application Number:	16817497
Application Number:	16827389
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Application Number:	16827430
Application Number:	16827434
Application Number:	16827447
Application Number:	16849241
Application Number:	16850263
Application Number:	16871149
Application Number:	16879422
Application Number:	16887982
Application Number:	16890367
Application Number:	16895848
Application Number:	16933401
Application Number:	16938323
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Application Number:	16999373
Application Number:	17009856
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Application Number:	17021507
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Application Number:	17035274
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Application Number:	17037057
Application Number:	17060818

Property Type	Number
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Application Number:	17065629
Application Number:	17072308
Application Number:	17073877
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Application Number:	17098929
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Application Number:	17371033
Application Number:	17371034
Application Number:	17371239
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Property Type	Number
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Application Number:	17459826
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Application Number:	17570772
Application Number:	17665973
Application Number:	17670963
Application Number:	17671183
Application Number:	17673386
Application Number:	17682021
Application Number:	17688372
Application Number:	17694348
Application Number:	17698573
Application Number:	17705895
Application Number:	17713910
Application Number:	17718079
Application Number:	17720612
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Application Number:	17748361
Application Number:	17826080
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Application Number:	29353282

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Application Number:	29517453
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Application Number:	29519200
Application Number:	29520401
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Application Number:	29528770
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Application Number:	29552124
Application Number:	29556794
Application Number:	29558001
Application Number:	29559470
Application Number:	29646572

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Property Type	Number
Application Number:	29646574
Application Number:	29646577
Application Number:	29646579
Application Number:	29646583
Application Number:	29646584
Application Number:	29646585
Application Number:	29654884
Application Number:	29654888
Application Number:	29663245
Application Number:	29663247
Application Number:	29671898
Application Number:	29687372
Application Number:	29692909
Application Number:	29737623
Application Number:	29737626
Application Number:	29741450
Application Number:	29741453
Application Number:	29746202
Application Number:	29746568
Application Number:	29746570
Application Number:	29750928
Application Number:	29793017
Application Number:	29798364
Application Number:	29809265
Application Number:	29811496
Application Number:	29814635
Application Number:	29842164
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Application Number:	17067009
Application Number:	17816652
Application Number:	17822362
Application Number:	17874553
Application Number:	17878411
Application Number:	17878953
Application Number:	17881900
Application Number:	17898674
Application Number:	17917505
Application Number:	17934782

Property Type	Number
Application Number:	17934853
Application Number:	17937598
Application Number:	17947376
Application Number:	17947384
Application Number:	17966317
Application Number:	17967235
Application Number:	17991071
Application Number:	17994486
Application Number:	18076718
Application Number:	18079351
Application Number:	18080245
Application Number:	18096676
Application Number:	18104881
Application Number:	18106078
Application Number:	18114334
Application Number:	18118825
Application Number:	18127776
Application Number:	18132592
Application Number:	18139014
Application Number:	18151863
Application Number:	18197251
Application Number:	18202413
Application Number:	18203153
Application Number:	18207346
Application Number:	18211047
Application Number:	18216763
Application Number:	18301767
Application Number:	18307368
Application Number:	18310933
Application Number:	18340663
Application Number:	29846681
Application Number:	29847680
Application Number:	29853067
Application Number:	29857584
Application Number:	29865685
Application Number:	29872443
Application Number:	29883403
Application Number:	29888224

Property Type	Number
Application Number:	29888229
Application Number:	63486711
Application Number:	63486755
Application Number:	17992074
Application Number:	17954155

#### CORRESPONDENCE DATA

**Fax Number:** (212)751-4864

***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.***

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**Address Line 4:** NEW YORK, NEW YORK 10020

**ATTORNEY DOCKET NUMBER:** 017637-2514

**NAME OF SUBMITTER:** ANGELA M. AMARU

**SIGNATURE:** /s/Angela M. Amaru

**DATE SIGNED:** 08/09/2023

#### Total Attachments: 52

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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This **INTELLECTUAL PROPERTY SECURITY AGREEMENT** (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**IP Security Agreement**”) dated August 7, 2023, is among the Persons listed on the signature pages hereof (collectively, the “**Grantors**”) and TCG Senior Funding L.L.C., as Collateral Agent for the Secured Parties (as defined in the Credit Agreement referred to below).

**WHEREAS**, reference is made to that certain (i) Credit Agreement, dated as of July 24, 2023 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Credit Agreement**”), among iRobot Corporation, a Delaware corporation (the “**Borrower**”), each lender from time to time party thereto (collectively, the “**Lenders**” and individually, a “**Lender**”) and TCG Senior Funding L.L.C. (“**TCG**”), as Administrative Agent and Collateral Agent, and (ii) Security Agreement, dated as of July 24, 2023 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Security Agreement**”), among the Grantors from time to time party thereto and the Collateral Agent. Capitalized terms defined in the Credit Agreement or the Security Agreement and not otherwise defined herein are used herein as defined in the Credit Agreement or the Security Agreement (and in the event of a conflict, the applicable definition shall be the one given to such term in the Security Agreement).

**WHEREAS**, under the terms of the Security Agreement, the Grantors have granted to the Collateral Agent, for the benefit of the Secured Parties, a security interest in, among other property, certain intellectual property of the Grantors, and have agreed thereunder to execute this IP Security Agreement for recording with the USPTO and/or the USCO, as applicable.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor agrees as follows:

A. Grant of Security. As security for the payment or performance, as the case may be, in full of the Secured Obligations, each Grantor hereby collaterally assigns and pledges to the Collateral Agent, for the benefit of the Secured Parties, and each Grantor hereby grants to the Collateral Agent, for the benefit of the Secured Parties, a security interest in and continuing lien on all of such Grantor’s right, title and interest in and to the following, whether now owned or hereafter acquired by such Grantor (the “**Collateral**”):

a. all patents, patent applications, utility models, statutory invention registrations and all inventions and designs claimed therein and all improvements thereto, including those patents and patent applications set forth in Schedule A hereto;

b. all trademarks, service marks, domain names, trade dress, logos, designs, slogans, trade names, business names, corporate names and other source identifiers, whether registered or unregistered (“**Trademarks**”), including those Trademark registrations and applications set forth in Schedule B hereto, together with the goodwill symbolized thereby;

c. all copyrights and all mask works and industrial designs, whether registered or unregistered (“**Copyrights**”), including, without limitation, the Copyright registrations and applications and exclusive Copyright licenses set forth in Schedule C hereto;

d. all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or

conventions and all other rights, priorities and privileges arising under or pertaining to any of the foregoing throughout the world;

e. all rights to sue or otherwise recover for any past, present and future infringement, dilution, misappropriation, or other violations or impairments of any of the foregoing; and

f. any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and Supporting Obligations relating to, any and all of the Additional Collateral, and, to the extent not otherwise included, all payments under insurance covering any Additional Collateral (whether or not the Collateral Agent is the loss payee thereof), or any indemnity, warranty or guaranty, payable by reason of loss or damage to or otherwise with respect to any of the foregoing Additional Collateral; provided that notwithstanding anything to the contrary contained in the foregoing clauses (a) through (e), the security interest created hereby shall not extend to, and the term "Additional Collateral" shall not include (i) any "intent-to-use" Trademark applications prior to the filing and acceptance of a "Statement of Use" or "Amendment to Allege Use" with respect thereto, solely to the extent, if any, and solely during the period, if any, in which, the grant of a security interest therein would impair the validity or enforceability of any registration issuing from such "intent-to-use" application under applicable federal law, or (ii) any other Excluded Property.

B. Security for Obligations. The grant of a security interest in, the Collateral by each Grantor under this IP Security Agreement secures the payment of all Secured Obligations of such Grantor now or hereafter existing under or in respect of the Secured Documents (as such Secured Documents may be amended, restated, amended and restated, supplemented or otherwise modified from time to time (including any increases of the principal amount outstanding thereunder)). Without limiting the generality of the foregoing, this IP Security Agreement secures, as to each Grantor, the payment of all amounts that constitute part of the Secured Obligations that would be owed by such Grantor to any Secured Party under the Secured Documents but for the fact that they are unenforceable or not allowable due to the existence of a bankruptcy, or reorganization or similar proceeding involving a Loan Party.

C. Recordation. Each Grantor authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks record this IP Security Agreement.

D. Execution in Counterparts; Electronic Execution. This IP Security Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. The words "execution", "signed", "signature", and words of like import in this IP Security Agreement or any amendment or other modification hereof shall be deemed to include electronic signatures or the keeping of records in electronic form, each of which shall be of the same legal effect, validity or enforceability as a manually executed signature or the use of a paper-based recordkeeping system, as the case may be, to the extent and as provided for in any applicable Law, including the Federal Electronic Signatures in Global and National Commerce Act, the New York State Electronic Signatures and Records Act, or any other similar state laws based on the Uniform Electronic Transactions Act.


E. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Security Agreement. Each Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Collateral Agent with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this IP Security Agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

F. Governing Law; Jurisdiction. THIS IP SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK WITHOUT GIVING EFFECT TO THE CONFLICTS OF LAWS PRINCIPLES THEREOF, BUT INCLUDING SECTION 5-1401 OF THE NEW YORK GENERAL OBLIGATIONS LAW. SECTION 10.15(b) (*SUBMISSION TO JURISDICTION*), SECTION 10.15(c) (*WAIVER OF VENUE*), SECTION 10.16 (*SERVICE OF PROCESS*) AND SECTION 10.17 (*WAIVER OF RIGHT TO TRIAL BY JURY*) OF THE CREDIT AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE, *MUTATIS MUTANDIS*.

[*Signature Pages Follow*]

**IN WITNESS WHEREOF**, Grantor and the Collateral Agent have caused this Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first written above.

**IROBOT CORPORATION**

DocuSigned by:  
By:   
Name: Julie Zeiler  
Title: Chief Financial Officer

**TCG SENIOR FUNDING L.L.C.**, as Collateral Agent

By:  \_\_\_\_\_

Name: Joshua Lefkowitz

Title: Chief Legal Officer

*[Signature Page to iRobot Intellectual Property Security Agreement]*

**PATENT**  
**REEL: 065048 FRAME: 0872**

**Schedule A**

**Patents**

See attached.

**SCHEDULE TO PATENT SECURITY AGREEMENT**

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Systems and methods for the automated sensing of motion in a mobile robot using visual data	10/642,358	08/15/2003	7162056	01/09/2007	iRobot Corporation
Navigational control system for a robotic device	10/661,835	09/12/2003	7024278	04/04/2006	iRobot Corporation
Systems and Methods for Controlling a Density of Visual Landmarks in a Visual Simultaneous Localization and Mapping System	10/739,394	12/17/2003	7145478	12/05/2006	iRobot Corporation
Systems and Methods for Correction of Drift Via Global Localization with a Visual Landmark	10/739,581	12/17/2003	7177737	02/13/2007	iRobot Corporation
Systems and Methods for Using Multiple Hypotheses in a Visual Simultaneous Localization and Mapping System	10/739,902	12/17/2003	7135992	11/14/2006	iRobot Corporation
Systems and Methods for Filtering Potentially Unreliable Visual Data for Visual Simultaneous Localization and Mapping	10/739,919	12/17/2003	7272467	09/18/2007	iRobot Corporation
Systems and Methods for Computing a Relative Pose for Global Localization in a Visual Simultaneous Localization and Mapping System	10/739,927	12/17/2003	7162338	01/09/2007	iRobot Corporation
Systems and Methods for Landmark Generation for Visual Simultaneous Localization and Mapping	10/739,935	12/17/2003	7774158	08/10/2010	iRobot Corporation
Systems and Methods for Incrementally Updating a Pose of a Mobile Device Calculated by Visual Simultaneous Localization and Mapping Techniques	10/739,937	12/17/2003	7015831	03/21/2006	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Autonomous robot auto-docking and energy management systems and methods	10/762,219	01/21/2004	7332890	02/19/2008	iRobot Corporation
Debris Sensor for Cleaning Apparatus	10/766,303	01/28/2004	6956348	10/18/2005	iRobot Corporation
Devices, systems and related methods for counter-rotating propellers	10/931,940	09/01/2004			iRobot Corporation
System and Method for Behavior Based Control of an Autonomous Vehicle	10/972,081	10/22/2004	8078338	12/13/2011	iRobot Corporation
Vision-enabled household appliances	11/038,714	01/20/2005	7903838	03/08/2011	iRobot Corporation
Robust sensor fusion for mapping and localization in a simultaneous localization and mapping (slam) system	11/055,210	02/10/2005	7689321	03/30/2010	iRobot Corporation
Circuit for estimating position and orientation of a mobile object	11/090,430	03/25/2005	7148458	12/12/2006	iRobot Corporation
Remote control scheduler and method for autonomous robotic device	11/166,891	06/24/2005	9008835	04/14/2015	iRobot Corporation
Obstacle following sensor scheme for a mobile robot	11/166,986	06/24/2005	8412377	04/02/2013	iRobot Corporation
Celestial navigation system for an autonomous robot	11/176,048	07/07/2005	7706917	04/27/2010	iRobot Corporation
Autonomous surface cleaning robot for wet cleaning	11/207,575	08/19/2005	8392021	03/05/2013	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	11/207,620	08/19/2005	7389156	06/17/2008	iRobot Corporation
Navigational control system for a robotic device	11/341,111	01/27/2006	7188000	03/06/2007	iRobot Corporation



<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Autonomous surface cleaning robot for wet and dry cleaning	11/359,961	02/21/2006	8670866	03/11/2014	iRobot Corporation
Debris sensor for cleaning apparatus	11/533,294	09/19/2006	7288912	10/30/2007	iRobot Corporation
Companion robot for personal interaction	11/541,422	09/29/2006	8583282	11/12/2013	iRobot Corporation
Companion robot for personal interaction	11/541,479	09/29/2006	8935006	01/13/2015	iRobot Corporation
Systems and Methods for Using Multiple Hypotheses in a Visual Simultaneous Localization and Mapping System	11/559,359	11/13/2006	7679532	03/16/2010	iRobot Corporation
Systems and Methods for Controlling a Density of Visual Landmarks in a Visual Simultaneous Localization and Mapping System	11/562,877	11/22/2006	7573403	08/11/2009	iRobot Corporation
Versatile robotic control module	11/584,084	10/20/2006	9043016	05/26/2015	Deere & Company   iRobot Corporation
System and method for obstacle avoidance	11/584,097	10/20/2006	8020657	09/20/2011	Deere & Company   iRobot Corporation
Methods and systems for obstacle detection using structured light	11/584,355	10/20/2006	9002511	04/07/2015	iRobot Corporation
Autonomous coverage robot navigation system	11/633,869	12/04/2006	9144360	09/29/2015	iRobot Corporation
Robot system	11/633,883	12/04/2006	8374721	02/12/2013	iRobot Corporation
Coverage robot mobility	11/633,885	12/04/2006	7441298	10/28/2008	iRobot Corporation
Modular robot	11/633,886	12/04/2006	8584305	11/19/2013	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	11/648,230	12/29/2006	8749196	06/10/2014	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	11/648,241	12/29/2006	8461803	06/11/2013	iRobot Corporation
Robot confinement	11/688,213	03/19/2007	8868237	10/21/2014	iRobot Corporation
Lawn care robot	11/688,225	03/19/2007	8634960	01/21/2014	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Coverage robots and associated cleaning bins	11/751,267	05/21/2007	8528157	09/10/2013	iRobot Corporation
Cleaning robot roller processing	11/751,413	05/21/2007	8087117	01/03/2012	iRobot Corporation
Detecting robot stasis	11/756,262	05/31/2007	8417383	04/09/2013	iRobot Corporation
Coverage robot mobility	11/758,289	06/05/2007	8600553	12/03/2013	iRobot Corporation
Navigating autonomous coverage robots	11/773,845	07/05/2007	9149170	10/06/2015	iRobot Corporation
Method and System for Controlling a Remote Vehicle	11/826,541	07/16/2007	8577538	11/05/2013	iRobot Corporation
Robot development platform	11/832,616	08/01/2007	8095238	01/10/2012	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	11/834,575	08/06/2007	8390251	03/05/2013	iRobot Corporation
Systems and methods for robotic gutter cleaning	11/834,908	08/07/2007	7979945	07/19/2011	iRobot Corporation
Autonomous surface cleaning robot for dry cleaning	11/835,356	08/07/2007	8739355	06/03/2014	iRobot Corporation
Autonomous surface cleaning robot for wet cleaning	11/835,359	08/07/2007	8382906	02/26/2013	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	11/835,360	08/07/2007	8387193	03/05/2013	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	11/835,363	08/07/2007	7761954	07/27/2010	iRobot Corporation
Debris sensor for cleaning apparatus	11/860,272	09/24/2007	7459871	12/02/2008	iRobot Corporation
Mobile Robot for Telecommunication	11/862,197	09/27/2007	8265793	09/11/2012	iRobot Corporation
Robotics systems	12/100,782	04/10/2008	8452448	05/28/2013	iRobot Corporation
System and Method for Cooperative Remote Vehicle Behavior	12/101,949	04/11/2008	8577126	11/05/2013	iRobot Corporation
Compact autonomous coverage robot	12/118,117	05/09/2008	8239992	08/14/2012	iRobot Corporation
Autonomous coverage robot	12/118,219	05/09/2008	8726454	05/20/2014	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Coverage robot mobility	12/211,938	09/17/2008	8661605	03/04/2014	iRobot Corporation
Debris sensor for cleaning apparatus	12/255,393	10/21/2008	8378613	02/19/2013	iRobot Corporation
Multi mode safety control module	12/269,868	11/12/2008	8237389	08/07/2012	iRobot Corporation
Removing debris from cleaning robots	12/301,263	09/21/2009	8572799	11/05/2013	iRobot Corporation
Delivery systems for pressure protecting and delivering a submerged payload and methods for using the same	12/332,734	12/11/2008	7942107	05/17/2011	iRobot Corporation
AUTONOMOUS COVERAGE ROBOT NAVIGATION SYSTEM (as amended)	12/343,430	12/23/2008	8380350	02/19/2013	iRobot Corporation
Systems and Methods for Control of an Unmanned Ground Vehicle	12/357,151	01/21/2009	7979175	07/12/2011	iRobot Corporation
Door breaching robotic manipulator	12/406,100	03/17/2009	8534983	09/17/2013	Apiary Holdings, LLC.   iRobot Corporation
Celestial navigation system for an autonomous robot	12/415,512	03/31/2009	8634956	01/21/2014	iRobot Corporation
Celestial navigation system for an autonomous robot	12/415,554	03/31/2009	8594840	11/26/2013	iRobot Corporation
Application of Localization, Positioning and Navigation Systems for Robotic Enabled Mobile Products	12/429,963	04/24/2009	8452450	05/28/2013	iRobot Corporation
Robot and Server with Optimized Message Decoding	12/431,733	04/28/2009	8447613	05/21/2013	iRobot Corporation
Obstacle following sensor scheme for a mobile robot	12/486,820	06/18/2009	8565920	10/22/2013	iRobot Corporation
Robot confinement	12/488,094	06/19/2009	8781627	07/15/2014	iRobot Corporation
Navigational control system for a robotic device	12/512,114	07/30/2009	8386081	02/26/2013	iRobot Corporation
Autonomous coverage robots	12/540,884	08/13/2009	9320398	04/26/2016	iRobot Corporation
Navigational control system for a robotic device	12/610,792	11/02/2009	8428778	04/23/2013	iRobot Corporation
Celestial navigation system for an autonomous vehicle	12/611,814	11/03/2009	8972052	03/03/2015	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Debris sensor for cleaning apparatus	12/687,436	01/14/2010	8253368	08/28/2012	iRobot Corporation
Systems and Methods for Using Multiple Hypotheses in a Visual Simultaneous Localization and Mapping System	12/724,312	03/15/2010	8274406	09/25/2012	iRobot Corporation
Autonomous coverage robot navigation system	12/828,525	07/01/2010	8606401	12/10/2013	iRobot Corporation
Systems and Methods for Adding Landmarks for Visual Simultaneous Localization and Mapping	12/839,793	07/20/2010	8086419	12/27/2011	iRobot Corporation
Systems and Methods for Determining Whether to Add a Landmark for Visual Simultaneous Localization and Mapping	12/839,821	07/20/2010	8095336	01/10/2012	iRobot Corporation
Companion robot for personal interaction	12/842,314	07/23/2010	8195333	06/05/2012	iRobot Corporation
Systems and Methods for Filtering Potentially Unreliable Visual Data for Visual Simultaneous Localization and Mapping	12/843,656	07/26/2010	8150650	04/03/2012	iRobot Corporation
System and method for autonomous mopping of a floor surface	12/928,965	12/23/2010	8892251	11/18/2014	iRobot Corporation
Mobile Robot for Cleaning	12/930,260	12/30/2010	8961695	02/24/2015	iRobot Corporation
Vision-enabled household appliances	12/932,779	03/04/2011	8229161	07/24/2012	iRobot Corporation
Methods and Systems for Complete Coverage of a Surface by an Autonomous Robot	12/940,871	11/05/2010	9026302	05/05/2015	iRobot Corporation
Localization by learning of wave-signal distributions	12/940,937	11/05/2010	8930023	01/06/2015	iRobot Corporation
Systems and methods for switching between autonomous and manual operation of a vehicle	12/959,429	12/03/2010	9098080	08/04/2015	Deere & Company   iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Navigational control system for a robotic device - cont.	12/966,509	12/13/2010	8515578	08/20/2013	iRobot Corporation
Articulated Joint and Three Areas of Contact	12/976,698	12/22/2010	9725012	08/08/2017	iRobot Corporation
Robotic Floor Cleaning Apparatus with Shell Connected to the Cleaning Assembly and Suspended Over the Drive System	12/976,786	12/22/2010	9725013	08/08/2017	iRobot Corporation
System for localization and obstacle detection using a common receiver	12/985,194	01/05/2011	9310806	04/12/2016	iRobot Corporation
Apparatus for holding a cleaning sheet in a cleaning implement	12/985,257	01/05/2011	8316499	11/27/2012	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	13/023,444	02/08/2011	8774966	07/08/2014	iRobot Corporation
Vacuum brush	13/028,996	02/16/2011	8800107	08/12/2014	iRobot Corporation
Mobile robot system	13/032,406	02/22/2011	9014848	04/21/2015	iRobot Corporation
Dust collection container and vacuum cleaner having the same	13/085,541	04/13/2011	8528162	09/10/2013	iRobot Corporation
Advanced behavior engine	13/105,872	05/11/2011	8571745	10/29/2013	iRobot Corporation
Navigation Portals for a Remote Vehicle Control User Interface	13/105,883	05/11/2011	9002535	04/07/2015	iRobot Corporation
Cleaning robot and control method thereof	13/109,216	05/17/2011	8442683	05/14/2013	iRobot Corporation
Transmission assemblies	13/158,365	06/10/2011	9228640	01/05/2016	iRobot Corporation
Cleaning path guidance method combined with dirt detection mechanism	13/184,700	07/18/2011	8871030	10/28/2014	iRobot Corporation
Methods and apparatus for position estimation using reflected light sources	13/204,075	08/05/2011	8295955	10/23/2012	iRobot Corporation
Method and Device for Manipulating an Object	13/204,299	08/05/2011	8548626	10/01/2013	iRobot Corporation
Mobile human interface robot	13/241,765	09/23/2011	8930019	01/06/2015	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Systems and Methods for VSLAM Optimization	13/244,221	09/23/2011	9286810	03/15/2016	iRobot Corporation
Compact autonomous coverage robot	13/245,095	09/26/2011	8347444	01/08/2013	iRobot Corporation
Compact autonomous coverage robot	13/245,118	09/26/2011	8370985	02/12/2013	iRobot Corporation
Celestial navigation system for an autonomous robot	13/245,694	09/26/2011	8634958	01/21/2014	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	13/280,813	10/25/2011	8855813	10/07/2014	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	13/291,633	11/08/2011	8854001	10/07/2014	iRobot Corporation
Celestial navigation system for an autonomous robot	13/299,982	11/18/2011	8874264	10/28/2014	iRobot Corporation
Cleaning robot roller processing	13/307,893	11/30/2011	8418303	04/16/2013	iRobot Corporation
Autonomous coverage robot sensing	13/314,398	12/08/2011	8438695	05/14/2013	iRobot Corporation
Modular robot	13/314,414	12/08/2011	8584307	11/19/2013	iRobot Corporation
Robot having additional computing device	13/314,556	12/08/2011	8364310	01/29/2013	iRobot Corporation
Systems and Methods for Multi-Modal Control of a vehicle	13/323,406	12/12/2011	9110471	08/18/2015	iRobot Corporation
Debris sensor for cleaning apparatus	13/326,997	12/15/2011	8456125	06/04/2013	iRobot Corporation
Debris monitoring	13/340,784	12/30/2011	8742926	06/03/2014	iRobot Corporation
Coverage robot navigating	13/340,802	12/30/2011	9436185	09/06/2016	iRobot Corporation
Dust Bin for a Robotic Vacuum	13/341,334	12/30/2011	8741013	06/03/2014	iRobot Corporation
Evacuation station system	13/345,270	01/06/2012	8984708	03/24/2015	iRobot Corporation
Interfacing with a mobile telepresence robot	13/360,579	01/27/2012	8718837	05/06/2014	Teladoc Health, Inc.   iRobot Corporation
Interfacing with a mobile telepresence robot	13/360,590	01/27/2012	8965579	02/24/2015	Teladoc Health, Inc.   iRobot Corporation
Autonomous surface cleaning robot for dry cleaning	13/429,830	03/26/2012	8782848	07/22/2014	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
System and Method for Implementing Force Field Deterrent for Robot	13/436,024	03/30/2012	9146560	09/29/2015	iRobot Corporation
Debris guard for a wheel assembly	13/455,353	04/25/2012	9010882	04/21/2015	iRobot Corporation
Robotic vacuum	13/460,261	04/30/2012	8881339	11/11/2014	iRobot Corporation
Robotic vacuum	13/460,347	04/30/2012	9220386	12/29/2015	iRobot Corporation
Mopping assembly for a mobile robot	13/495,912	06/13/2012	8898844	12/02/2014	iRobot Corporation
Debris sensor for cleaning apparatus	13/523,109	06/14/2012	8598829	12/03/2013	iRobot Corporation
Mobile Robot for Telecommunication	13/562,315	07/31/2012	8577501	11/05/2013	iRobot Corporation
Navigational control system for a robotic device	13/613,051	09/13/2012	8793020	07/29/2014	iRobot Corporation
Systems and Methods for Using Multiple Hypotheses in a Visual Simultaneous Localization and Mapping System	13/615,174	09/13/2012	8508388	08/13/2013	iRobot Corporation
System and method for managing search results including graphics	13/615,381	09/13/2012	9092458	07/28/2015	iRobot Corporation
Adaptive mapping with spatial summaries of sensor data	13/632,997	10/01/2012	8798840	08/05/2014	iRobot Corporation
Device for Influencing Navigation of an Autonomous Vehicle	13/647,575	10/09/2012	8688270	04/01/2014	iRobot Corporation
Methods and apparatus for position estimation using reflected light sources	13/651,080	10/12/2012	8780342	07/15/2014	iRobot Corporation
Management of resources for slam in large environments	13/673,926	11/09/2012	9250081	02/02/2016	iRobot Corporation
Re-localization of a robot for slam	13/673,928	11/09/2012	9534899	01/03/2017	iRobot Corporation
Apparatus for holding a cleaning sheet in a cleaning implement	13/685,476	11/26/2012	8869338	10/28/2014	iRobot Corporation

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Digest for Localization or Fingerprinted Overlay	13/688,933	11/29/2012	8903644	12/02/2014	iRobot Corporation
Sonar System for Remote Vehicle	13/719,726	12/19/2012	8989947	03/24/2015	iRobot Corporation
Compact autonomous coverage robot	13/719,784	12/19/2012	8839477	09/23/2014	iRobot Corporation
Coverage robot mobility	13/722,566	12/20/2012	8978196	03/17/2015	iRobot Corporation
Autonomous coverage robot	13/729,819	12/28/2012	9282867	03/15/2016	iRobot Corporation
Autonomous coverage robot	13/729,894	12/28/2012	9483055	11/01/2016	iRobot Corporation
Celestial navigation system for an autonomous vehicle	13/731,393	12/31/2012	9223749	12/29/2015	iRobot Corporation
Mobile inspection robot	13/766,125	02/13/2013	9463574	10/11/2016	iRobot Corporation
Detecting robot stasis	13/777,648	02/26/2013	9317038	04/19/2016	iRobot Corporation
Navigational control system for a robotic device	13/781,314	02/28/2013	8781626	07/15/2014	iRobot Corporation
Simultaneous localization and mapping for a mobile robot	13/790,643	03/08/2013	9020637	04/28/2015	iRobot Corporation
Autonomous coverage robot	13/790,867	03/08/2013	8972061	03/03/2015	iRobot Corporation
Compliant Solid-State Bumper for Robot	13/803,617	03/14/2013	8950792	02/10/2015	iRobot Corporation
Compliant underactuated grasper	13/833,580	03/15/2013	9004559	04/14/2015	iRobot Corporation
Compliant underactuated grasper	13/833,631	03/15/2013	8991885	03/31/2015	iRobot Corporation
Compliant underactuated grasper	13/833,687	03/15/2013	9089977	07/28/2015	iRobot Corporation
Roller brush for surface cleaning robots	13/835,501	03/15/2013	9326654	05/03/2016	iRobot Corporation
Coverage robots and associated cleaning bins	13/892,453	05/13/2013	10244915	04/02/2019	iRobot Corporation
Debris sensor for cleaning apparatus	13/893,038	5/13/2013	9144361	9/29/2015	iRobot Corporation
Robot system	13/893,905	05/14/2013	8761931	06/24/2014	iRobot Corporation
Simultaneous localization and mapping for a mobile robot	13/900,767	05/23/2013	9037396	05/19/2015	iRobot Corporation
Carpet drift estimation using differential sensors or visual measurements	13/913,258	06/07/2013	9223312	12/29/2015	iRobot Corporation
Suspended Robot Systems and Methods for Using Same	13/921,882	06/19/2013	9457473	10/04/2016	iRobot Corporation



<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Companion robot for personal interaction	13/948,059	07/22/2013	9452525	09/27/2016	iRobot Corporation
Time-dependent navigation of telepresence robots	13/958,413	08/02/2013	9323250	04/26/2016	Teladoc Health, Inc.   iRobot Corporation
Navigational control system for a robotic device	13/966,655	08/14/2013	8718821	05/06/2014	iRobot Corporation
Proximity sensing on mobile robots	14/033,922	09/23/2013	8862271	10/14/2014	iRobot Corporation
Advanced behavior engine	14/036,451	09/25/2013	9327403	05/03/2016	iRobot Corporation
Modular robot	14/037,008	09/25/2013	8950038	02/10/2015	iRobot Corporation
Companion robot for personal interaction	14/039,256	09/27/2013	9878445	01/30/2018	iRobot Corporation
Removing debris from cleaning robots	14/042,882	10/01/2013	9955841	05/01/2018	iRobot Corporation
Companion robot for personal interaction	14/044,170	10/02/2013	9796078	10/24/2017	iRobot Corporation
Autonomous surface cleaning robot for wet cleaning	14/044,312	10/02/2013	8985127	03/24/2015	iRobot Corporation
AUTONOMOUS MOBILE ROBOT SYSTEM (as amended)	14/044,346	10/02/2013	9229454	01/05/2016	iRobot Corporation
Environmental Management Systems Including Mobile Robots and Methods Using Same	14/046,940	10/05/2013	9380922	07/05/2016	iRobot Corporation
Robot management systems for determining docking station pose including mobile robots and methods using same	14/046,941	10/05/2013	9538892	01/10/2017	iRobot Corporation
Autonomous surface cleaning robot	14/077,296	11/12/2013	9427127	08/30/2016	iRobot Corporation
Commanding a mobile robot using glyphs	14/077,380	11/12/2013	9233468	01/12/2016	iRobot Corporation
Lawn care robot	14/104,285	12/12/2013	9043952	06/02/2015	iRobot Corporation
Lawn care robot	14/104,538	12/12/2013	9043953	06/02/2015	iRobot Corporation
Removing debris from cleaning robots	14/140,099	12/24/2013	9492048	11/15/2016	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Environmental Management Systems Including Mobile Robots and Methods Using Same	14/158,557	01/17/2014	9375847	06/28/2016	iRobot Corporation
Mobile Robot Providing Environmental Mapping for Household Environmental Control	14/160,299	01/21/2014	9233472	01/12/2016	iRobot Corporation
Autonomous coverage robot	14/219,625	03/19/2014	10299652	05/28/2019	iRobot Corporation
Interfacing with a mobile telepresence robot	14/221,827	03/21/2014	9079311	07/14/2015	Teladoc Health, Inc.   iRobot Corporation
Methods and Systems for Complete Coverage of a Surface by an Autonomous Robot	14/251,390	04/11/2014	9188983	11/17/2015	iRobot Corporation
Transferable intelligent control device	14/255,880	04/17/2014	9308643	04/12/2016	iRobot Corporation
Debris monitoring	14/258,440	04/22/2014	9233471	01/12/2016	iRobot Corporation
Systems and Methods for Using Multiple Hypotheses in a Visual Simultaneous Localization and Mapping System	14/271,260	05/06/2014	9110470	08/18/2015	iRobot Corporation
Situational Awareness for Teleoperation of a Remote Vehicle	14/274,227	05/09/2014	8989876	03/24/2015	iRobot Corporation
Robot system	14/275,355	05/12/2014	9392920	07/19/2016	iRobot Corporation
Compliant Solid-State Bumper for Robot	14/277,270	05/14/2014	9004553	04/14/2015	iRobot Corporation
Proximity sensing on mobile robots	14/279,598	05/16/2014	9442488	09/13/2016	iRobot Corporation
Navigational control system for a robotic device	14/291,682	05/30/2014	9949608	04/24/2018	iRobot Corporation
Autonomous surface cleaning robot for dry cleaning	14/292,090	05/30/2014	10470629	11/12/2019	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	14/301,454	06/11/2014	9445702	09/20/2016	iRobot Corporation
Robotic vacuum cleaning system	14/302,469	06/12/2014	8955192	02/17/2015	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Robotic vacuum cleaning system	14/302,474	06/12/2014	8910342	12/16/2014	iRobot Corporation
Adaptive mapping with spatial summaries of sensor data	14/307,402	06/17/2014	9218003	12/22/2015	iRobot Corporation
Vacuum brush	14/325,997	07/08/2014	10314449	06/11/2019	iRobot Corporation
Compact autonomous coverage robot	14/456,293	08/11/2014	9480381	11/01/2016	iRobot Corporation
Modular robot	14/461,733	08/18/2014	10524629	01/07/2020	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	14/475,984	09/03/2014	9215957	12/22/2015	iRobot Corporation
Robot confinement	14/489,847	09/18/2014	9713302	07/25/2017	iRobot Corporation
Mobile robot area cleaning	14/511,947	10/10/2014	9798328	10/24/2017	iRobot Corporation
Autonomous robot localization	14/512,013	10/10/2014	9510505	12/06/2016	iRobot Corporation
Robotic lawn mowing boundary determination	14/512,098	10/10/2014	9516806	12/13/2016	iRobot Corporation
Mobile Robot for Telecommunication	14/512,842	10/13/2014	9296109	03/29/2016	iRobot Corporation
System and method for autonomous mopping of a floor surface	14/522,445	10/23/2014	9179813	11/10/2015	iRobot Corporation
System and method for autonomous mopping of a floor surface	14/522,446	10/23/2014	9167947	10/27/2015	iRobot Corporation
Scanning range finder	14/529,815	10/31/2014	10024964	07/17/2018	iRobot Corporation
A mobile floor cleaning robot	14/538,349	11/11/2014	9615712	04/11/2017	iRobot Corporation
Mobile human interface robot	14/546,192	11/18/2014	9498886	11/22/2016	iRobot Corporation
Autonomous mobile robot	14/547,227	11/19/2014	9278690	03/08/2016	iRobot Corporation
Social behavior rules for a medical telepresence robot	14/550,743	11/21/2014	9174342	11/03/2015	Teladoc Health, Inc.   iRobot Corporation
Clinical workflows utilizing autonomous and semi-autonomous telemedicine devices	14/550,744	11/21/2014	10603792	03/31/2020	Teladoc Health, Inc.   iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Graphical user interfaces including touchpad driving interfaces for telemedicine devices	14/550,750	11/21/2014	9361021	06/07/2016	Teladoc Health, Inc.   iRobot Corporation
Compliant underactuated grasper	14/552,612	11/25/2014	9114540	08/25/2015	iRobot Corporation
Debris evacuation for cleaning robots	14/566,243	12/10/2014	9788698	10/17/2017	iRobot Corporation
Cleaning system for autonomous robot	14/568,180	12/12/2014	10568483	02/25/2020	iRobot Corporation
Robot lawnmower mapping	14/570,616	12/15/2014	9420741	08/23/2016	iRobot Corporation
Systems and Methods for Capturing Images and Annotating the Captured Images with Information	14/572,712	12/16/2014	9704043	07/11/2017	iRobot Corporation
Robotic mowing of separated lawn areas	14/579,080	12/22/2014	9538702	01/10/2017	iRobot Corporation
Autonomous mobile robot	14/586,099	12/30/2014	9457471	10/04/2016	iRobot Corporation
Autonomous coverage robot	14/587,723	12/31/2014	9408515	08/09/2016	iRobot Corporation
Companion robot for personal interaction	14/587,987	12/31/2014	9446510	09/20/2016	iRobot Corporation
Robotic vacuum cleaning system	14/588,077	12/31/2014	9320400	04/26/2016	iRobot Corporation
Localization by learning of wave-signal distributions	14/589,429	01/05/2015	9440354	09/13/2016	iRobot Corporation
Robotic Arm and Wrist Mechanisms	14/610,013	01/30/2015	9845850	12/19/2017	iRobot Corporation
Liquid management for floor-traversing robots	14/621,052	02/12/2015	9757004	09/12/2017	iRobot Corporation
Mobile floor-cleaning robot with floor-type detection	14/622,613	02/13/2015	9993129	06/12/2018	iRobot Corporation
Mobile robot system	14/625,646	02/19/2015	9902069	02/27/2018	iRobot Corporation
Mobile Robot for Cleaning	14/627,823	02/20/2015	10766132	09/08/2020	iRobot Corporation
Evacuation station system	14/634,170	02/27/2015	9888818	02/13/2018	iRobot Corporation
Methods and systems for obstacle detection using structured light	14/635,800	03/02/2015	9632505	04/25/2017	iRobot Corporation
Compliant underactuated grasper	14/643,410	03/10/2015	9327412	05/03/2016	iRobot Corporation

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Compliant Solid-State Bumper for Robot	14/643,438	03/10/2015	9346426	05/24/2016	iRobot Corporation
Autonomous floor cleaning with a removable pad	14/658,820	03/16/2015	9907449	03/06/2018	iRobot Corporation
Autonomous mobile robot	14/659,705	03/17/2015	9554508	01/31/2017	iRobot Corporation
Localization and mapping using physical features	14/661,633	03/18/2015	9630319	04/25/2017	iRobot Corporation
Remote control scheduler and method for autonomous robotic device	14/670,572	03/27/2015	9486924	11/08/2016	iRobot Corporation
Rotatable coupling	14/671,304	03/27/2015	9866035	01/09/2018	iRobot Corporation
Simultaneous localization and mapping for a mobile robot	14/674,427	03/31/2015	9400501	07/26/2016	iRobot Corporation
Restricting movement of a mobile robot	14/682,658	04/09/2015	9868211	01/16/2018	iRobot Corporation
Wall following robot	14/682,760	04/09/2015	9918605	03/20/2018	iRobot Corporation
Simultaneous localization and mapping for a mobile robot	14/685,029	04/13/2015	9329598	05/03/2016	iRobot Corporation
Lawn care robot	14/698,461	04/28/2015	10037038	07/31/2018	iRobot Corporation
Contact sensors for a mobile robot	14/728,406	06/02/2015	9505140	11/29/2016	iRobot Corporation
Evacuation station	14/750,563	06/25/2015	9462920	10/11/2016	iRobot Corporation
Robot navigational sensor sytem	14/789,511	07/01/2015	9919425	03/20/2018	iRobot Corporation
Systems and methods for using multiple hypotheses in a visual simultaneous localization and mapping system	14/796,162	07/10/2015	9483054	11/01/2016	iRobot Corporation
System and Method for Behavior Based Control of an Autonomous Vehicle	14/797,709	07/13/2015	9513634	12/06/2016	iRobot Corporation
Magnetic field localization and navigation	14/799,319	07/14/2015	10379172	08/13/2019	iRobot Corporation
Interfacing with a mobile telepresence robot	14/799,450	07/14/2015	9168656	10/27/2015	Teladoc Health, Inc.   iRobot Corporation
Pairing a beacon with a mobile robot	14/807,485	07/23/2015	11115798	09/07/2021	iRobot Corporation

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Controlling robotic lawnmowers	14/808,613	07/24/2015	10034421	07/31/2018	iRobot Corporation
Cleaning pad	14/816,665	08/03/2015	9220389	12/29/2015	iRobot Corporation
Debris sensor for cleaning apparatus	14/824,940	8/12/2015	9591959	3/14/2017	iRobot Corporation
Autonomous floor cleaning with removable pad	14/828,285	08/17/2015	9265396	02/23/2016	iRobot Corporation
Systems and Methods for Performing Occlusion Detection	14/856,497	09/16/2015	9751210	09/05/2017	iRobot Corporation
Systems and Methods for Use of Optical Odometry Sensors In a Mobile Robot	14/856,501	09/16/2015	9744670	08/29/2017	iRobot Corporation
Systems and Methods for Performing Simultaneous Localization and Mapping using Machine Vision Systems	14/856,526	09/16/2015	9519289	12/13/2016	iRobot Corporation
System and method for autonomous mopping of a floor surface	14/877,207	10/07/2015	9370290	06/21/2016	iRobot Corporation
Methods and Systems for Complete Coverage of a Surface by an Autonomous Robot	14/880,610	10/12/2015	9895808	02/20/2018	iRobot Corporation
Interfacing with a mobile telepresence robot	14/924,471	10/27/2015	9469030	10/18/2016	Teladoc Health, Inc.   iRobot Corporation
Social behavior rules for a medical telepresence robot	14/931,641	11/03/2015	9776327	10/03/2017	Teladoc Health, Inc.   iRobot Corporation
Robotic Fingers and End Effectors Including Same	14/933,443	11/05/2015	9744677	08/29/2017	iRobot Corporation
Robotic Fingers and End Effectors Including Same	14/933,732	11/05/2015	9545727	01/17/2017	iRobot Corporation
Autonomous floor cleaning with removable pad	14/936,236	11/09/2015	9320409	04/26/2016	iRobot Corporation
Adaptive mapping with spatial summaries of sensor data	14/944,152	11/17/2015	9404756	08/02/2016	iRobot Corporation
Evacuation station	14/944,788	11/18/2015	9931007	04/03/2018	iRobot Corporation
Wall following robot	14/946,500	11/19/2015	9877630	01/30/2018	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Autonomous robot auto-docking and energy management systems and methods	14/946,999	11/20/2015	9550294	01/24/2017	iRobot Corporation
Robot management systems for determining docking station pose including mobile robots and methods using same	14/947,277	11/20/2015	9468349	10/18/2016	iRobot Corporation
Robotic vacuum	14/947,826	11/20/2015	9675224	06/13/2017	iRobot Corporation
Carpet drift estimation using differential sensors or visual measurements	14/949,002	11/23/2015	9427875	08/30/2016	iRobot Corporation
Mobile Robots Providing Environmental Mapping for Household Environmental Control	14/956,523	12/02/2015	9802322	10/31/2017	iRobot Corporation
Celestial navigation system for an autonomous vehicle	14/966,621	12/11/2015	9529363	12/27/2016	iRobot Corporation
Debris monitoring	14/985,862	12/31/2015	9826872	11/28/2017	iRobot Corporation
Blade assembly for a grass cutting mobile robot	15/013,253	02/02/2016	10021830	07/17/2018	iRobot Corporation
Systems and methods for vslam optimization	15/014,934	02/03/2016	9910444	03/06/2018	iRobot Corporation
Transferable intelligent control device	15/075,569	03/21/2016	9914217	03/13/2018	iRobot Corporation
Autonomous floor cleaning with removable pad	15/085,505	03/30/2016	9565984	02/14/2017	iRobot Corporation
Roller brush for surface cleaning robots	15/088,802	04/01/2016	10292560	05/21/2019	iRobot Corporation
Time-dependent navigation of telepresence robots	15/139,073	04/26/2016	9785149	10/10/2017	Teladoc Health, Inc.   iRobot Corporation
Cleaning pad	15/147,661	05/05/2016	10398277	09/03/2019	iRobot Corporation
Graphical user interfaces including touchpad driving interfaces for telemedicine devices	15/154,518	05/13/2016	10061896	08/28/2018	Teladoc Health, Inc.   iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Environmental Management Systems Including Mobile Robots and Methods Using Same	15/162,756	05/24/2016	9874873	01/23/2018	iRobot Corporation
Environmental management systems including mobile robots and methods using same	15/174,292	06/06/2016	10488857	11/26/2019	iRobot Corporation
System and method for autonomous mopping of a floor surface	15/175,328	06/07/2016	9801518	10/31/2017	iRobot Corporation
Robot system	15/182,849	06/15/2016	9599990	03/21/2017	iRobot Corporation
Coverage robot navigating	15/196,563	06/29/2016	10152062	12/11/2018	iRobot Corporation
Carpet drift estimation using differential sensors or visual measurements	15/221,036	07/27/2016	9969089	05/15/2018	iRobot Corporation
Adaptive Mapping with Spatial Summaries of Sensor Data	15/225,158	08/01/2016	9952053	04/24/2018	iRobot Corporation
Robot lawnmower mapping	15/229,674	08/05/2016	10274954	04/30/2019	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	15/238,181	08/16/2016	9706891	07/18/2017	iRobot Corporation
Light Indicator System for an Autonomous Mobile Robot	15/238,633	08/16/2016	10272828	04/30/2019	iRobot Corporation
Proximity sensing on mobile robots	15/244,603	08/23/2016	10429851	10/01/2019	iRobot Corporation
Blade guard for a robot lawnmower	15/246,947	08/25/2016	9807930	11/07/2017	iRobot Corporation
Localization by learning of wave-signal distributions	15/248,352	08/26/2016	9623557	04/18/2017	iRobot Corporation
Autonomous mobile robot	15/252,355	08/31/2016	10124490	11/13/2018	iRobot Corporation
Evacuation station	15/259,732	09/08/2016	9924846	03/27/2018	iRobot Corporation
Removing debris from cleaning robots	15/278,772	09/28/2016			iRobot Corporation
Compact autonomous coverage robot	15/331,965	10/24/2016	10070764	09/11/2018	iRobot Corporation



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Systems and methods for using multiple hypotheses in a visual simultaneous localization and mapping system	15/337,455	10/28/2016	9886037	02/06/2018	iRobot Corporation
Mobile Cleaning Robot with a Bin	15/338,164	10/28/2016	10292554	05/21/2019	iRobot Corporation
Remote control scheduler and method for autonomous robotic device	15/340,250	11/01/2016	10893787	01/19/2021	iRobot Corporation
Contact sensors for a mobile robot	15/349,237	11/15/2016	10035270	07/31/2018	iRobot Corporation
Systems and Methods for Performing Simultaneous Localization and Mapping using Machine Vision Systems	15/353,368	11/16/2016	10222805	03/05/2019	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	15/355,518	11/18/2016	9931750	04/03/2018	iRobot Corporation
Celestial navigation system for an autonomous vehicle	15/366,367	12/01/2016	9921586	03/20/2018	iRobot Corporation
Robotic mowing of separated lawn areas	15/367,047	12/01/2016	9826678	11/28/2017	iRobot Corporation
Autonomous robot localization	15/368,894	12/05/2016	10067232	09/04/2018	iRobot Corporation
Robotic lawn mowing boundary determination	15/371,618	12/07/2016	9854737	01/02/2018	iRobot Corporation
Autonomous mobile robot	15/379,796	12/15/2016	10091930	10/09/2018	iRobot Corporation
Cleaning roller for cleaning robots	15/380,530	12/15/2016	10512384	12/24/2019	iRobot Corporation
Autonomous floor cleaning with removable pad	15/383,008	12/19/2016	10064533	09/04/2018	iRobot Corporation
Cleaning Bin for Cleaning Robot	15/388,776	12/22/2016	10456002	10/29/2019	iRobot Corporation

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Robot management systems for determining docking station pose including mobile robots and methods using same	15/389,926	12/23/2016	10335004	07/02/2019	iRobot Corporation
Robot lawn mower bumper system	15/395,865	12/30/2016	10375880	08/13/2019	iRobot Corporation
Mobile robot systems and methods using same	15/404,455	01/12/2017	10471611	11/12/2019	iRobot Corporation
Robot system	15/417,997	01/27/2017	9901236	02/27/2018	iRobot Corporation
Debris sensor for cleaning apparatus	15/419,425	1/30/2017	9883783	2/6/2018	iRobot Corporation
Ranging and angle of arrival antenna system for a mobile robot	15/435,058	02/16/2017	10459063	10/29/2019	iRobot Corporation
Cleaning pad for a robot cleaner	15/435,586	02/17/2017	10172505	01/08/2019	iRobot Corporation
Interfacing with a mobile telepresence robot	15/446,919	03/01/2017	10399223	9/3/2019	Teladoc Health Inc.   iRobot Corporation
Localization and mapping using physical features	15/451,756	03/07/2017	10500722	12/10/2019	iRobot Corporation
Methods and systems for complete coverage of a surface by an autonomous robot	15/461,106	03/16/2017	10583562	03/10/2020	iRobot Corporation
Systems and Methods for Capturing Images and Annotating the Captured Images with Information	15/473,327	03/29/2017	9836653	12/05/2017	iRobot Corporation
Modular robot	15/487,591	04/14/2017	10070763	09/11/2018	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	15/491,599	04/19/2017	9884423	02/06/2018	iRobot Corporation
Celestial navigation system for an autonomous vehicle	15/491,603	04/19/2017	10599159	03/24/2020	iRobot Corporation
Remote control scheduler and method for autonomous robotic device	15/495,153	04/24/2017	10045676	08/14/2018	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Methods, systems, and devices for mapping wireless communication signals for mobile robot guidance	15/588,117	05/05/2017	10664502	05/26/2020	iRobot Corporation
Robotic vacuum cleaning system	15/590,411	05/09/2017	10433696	10/08/2019	iRobot Corporation
Methods, systems, and devices for mapping, controlling, and displaying device status	15/594,222	05/12/2017	10895971	01/19/2021	iRobot Corporation
Brush for autonomous cleaning robot	15/605,299	05/25/2017	11103113	08/31/2021	iRobot Corporation
Cleaning Pad for Cleaning Robot	15/612,234	06/02/2017	10595698	03/24/2020	iRobot Corporation
Systems and methods to control an autonomous mobile robot	15/614,844	06/06/2017	11020860	06/01/2021	iRobot Corporation
Mast systems for autonomous mobile robots	15/620,658	06/12/2017	10100968	10/16/2018	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	15/626,662	06/19/2017	10213081	02/26/2019	iRobot Corporation
Application of localization, positioning and navigation systems for robotic enabled mobile products	15/642,226	07/05/2017	10730397	08/04/2020	iRobot Corporation
Systems and Methods for Performing Occlusion Detection	15/646,782	07/11/2017	10391630	08/27/2019	iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	15/647,677	07/12/2017	10575696	03/03/2020	iRobot Corporation
Cleaning roller for cleaning robots	15/659,345	07/25/2017	10595624	03/24/2020	iRobot Corporation
Debris evacuation for cleaning robots	15/687,119	08/25/2017	10405718	09/10/2019	iRobot Corporation
Wet robot docking station	15/693,349	08/31/2017	10383499	08/20/2019	iRobot Corporation
Mobile robot area cleaning	15/698,005	09/07/2017	10296007	05/21/2019	iRobot Corporation

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Liquid management for floor-traversing robots	15/701,138	09/11/2017	10376120	08/13/2019	iRobot Corporation
Systems and methods for configurable operation of a robot using a remote user interface	15/704,814	09/14/2017	10168709	01/01/2019	iRobot Corporation
Mobile robot providing environmental mapping for household environmental control	15/709,874	09/20/2017	10391638	08/27/2019	iRobot Corporation
Social behavior rules for a medical telepresence robot	15/720,214	09/29/2017			Teladoc Health Inc.   iRobot Corporation
Time-dependent navigation of telepresence robots	15/721,067	9/29/2017	10591921	3/17/2020	Teladoc Health, Inc.   iRobot Corporation
System and method for autonomous mopping of a floor surface	15/726,536	10/06/2017	10258214	04/16/2019	iRobot Corporation
Blade guard for a robot lawnmower	15/793,261	10/25/2017	10244678	04/02/2019	iRobot Corporation
Electrostatic discharge systems for autonomous mobile robots	15/794,543	10/26/2017	10517455	12/31/2019	iRobot Corporation
Robotic mowing of separated lawn areas	15/794,603	10/26/2017	10159180	12/25/2018	iRobot Corporation
Debris monitoring	15/794,604	10/26/2017	10244913	04/02/2019	iRobot Corporation
Restricting movement of a mobile robot	15/796,905	10/30/2017	10639793	05/05/2020	iRobot Corporation
Autonomous floor cleaning with a removable pad	15/798,813	10/31/2017	10499783	12/10/2019	iRobot Corporation
Systems and Methods for Capturing Images and Annotating the Captured Images with Information	15/804,495	11/06/2017	10102429	10/16/2018	iRobot Corporation
Robotic Arm and Wrist Mechanisms	15/813,933	11/15/2017	10578197	03/03/2020	iRobot Corporation
Washable bin for a robot vacuum cleaner	15/815,099	11/16/2017			iRobot Corporation
Mobile cleaning robot cleaning head	15/829,357	12/01/2017	10470636	11/12/2019	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Autonomous coverage robot sensing	15/841,739	12/14/2017	11072250	07/27/2021	iRobot Corporation
Battery assembly for autonomous mobile robot	15/844,956	12/18/2017	10581038	03/03/2020	iRobot Corporation
Robotic lawn mowing boundary determination	15/850,413		10750667	08/25/2020	iRobot Corporation
Debris sensor for cleaning apparatus	15/854,125	12/26/2017	10182693	01/22/2019	iRobot Corporation
Mobile robot docking systems and methods	15/858,550	12/29/2017	10737395	08/11/2020	iRobot Corporation
Evacuation station system	15/858,912	12/29/2017	10856709	12/08/2020	iRobot Corporation
Wet floorcare robot cleaner tank latch	15/863,086	01/05/2018	10806314	10/20/2020	iRobot Corporation
Mobile cleaning robot artificial intelligence for situational awareness	15/863,591	01/05/2018	10878294	12/29/2020	iRobot Corporation
Robot teaming and persistent maps	15/863,681	01/05/2018			iRobot Corporation
Systems and methods for spot cleaning by a mobile robot	15/863,705	01/05/2018	10575699	03/03/2020	iRobot Corporation
Labeling method for cleaning robot deep learning system	15/863,786	01/05/2018	10839554	11/17/2020	iRobot Corporation
Companion robot for personal interaction	15/873,107	01/17/2018	10661433	05/26/2020	iRobot Corporation
Robot system	15/880,767	01/26/2018	10182695	01/22/2019	iRobot Corporation
Transferable intelligent control device	15/881,162	01/26/2018	11220005	01/11/2022	iRobot Corporation
Wall following robot	15/890,496	02/07/2018	10537221	01/21/2020	iRobot Corporation
Robot navigational sensor sytem	15/890,791	02/07/2018	10674885	06/09/2020	iRobot Corporation
Evacuation station	15/901,380	02/21/2018	10154768	12/18/2018	iRobot Corporation
Evacuation station	15/901,952	02/22/2018	10463215	11/05/2019	iRobot Corporation
Navigational control system for a robotic device	15/916,867	03/09/2018	10813517	10/27/2020	iRobot Corporation
Adaptive mapping with spatial summaries of sensor data	15/921,085	03/14/2018	10962376	03/30/2021	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Graphical user interfaces including touchpad driving interfaces for telemedicine devices	15/931,451	05/13/2020	10892052	01/12/2021	Teladoc Health, Inc.   iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	15/941,763	03/30/2018	10758100	09/01/2020	iRobot Corporation
Systems and methods for configurable operation of a robot based on area classification	15/943,083	04/02/2018	10310507	06/04/2019	iRobot Corporation
Carpet drift estimation using differential sensors or visual measurements	15/949,653	04/10/2018	10974391	04/13/2021	iRobot Corporation
Filtering devices for evacuation stations	15/971,322	05/04/2018	10842334	11/24/2020	iRobot Corporation
Mobile floor-cleaning robot with floor-type detection	16/005,132	06/11/2018	10813518	10/27/2020	iRobot Corporation
Cutting assembly	16/007,344	06/13/2018	10426083	10/01/2019	iRobot Corporation
Scanning range finder	16/012,097	06/19/2018	10845481	11/24/2020	iRobot Corporation
Contact sensors for a mobile robot	16/021,829	06/28/2018	11104006	08/31/2021	iRobot Corporation
Robotic lawnmower dock	16/032,761	07/11/2018	10873194	12/22/2020	iRobot Corporation
Controlling robotic lawnmowers	16/037,090	07/17/2018	10785907	09/29/2020	iRobot Corporation
Debris bins and mobile cleaning robots including same	16/039,070	07/18/2018	10779695	09/22/2020	iRobot Corporation
Graphical user interfaces including touchpad driving interfaces for telemedicine devices	16/045,608	07/25/2018	10658083	05/19/2020	Teladoc Health, Inc.   iRobot Corporation
Lawn care robot	16/047,414	07/27/2018	11194342	12/07/2021	iRobot Corporation
Autonomous mobile robot	16/106,540	08/21/2018	10390483	08/27/2019	iRobot Corporation
Mast systems for autonomous mobile robots	16/106,628	08/21/2018	10458593	10/29/2019	iRobot Corporation
Autonomous floor cleaning with removable pad	16/117,416	08/30/2018	10952585	03/23/2021	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Map based training and interface for mobile robots	16/117,484	08/30/2018	10835096	11/17/2020	iRobot Corporation
Compact autonomous coverage robot	16/120,903	09/04/2018	11014460	05/25/2021	iRobot Corporation
Navigation of autonomous mobile robots	16/120,993	09/04/2018			iRobot Corporation
Mobile robots with intelligent capacitive touch sensing	16/121,048	09/04/2018	10744650	08/18/2020	iRobot Corporation
Mapping interface for mobile robots	16/121,234	09/04/2018	11007644	05/18/2021	iRobot Corporation
Interface for robot cleaner evacuation	16/122,432	09/05/2018	11039725	06/22/2021	iRobot Corporation
Scheduling system for autonomous robots	16/123,994	09/06/2018	11278176	03/22/2022	iRobot Corporation
Autonomous Floor-Cleaning Robot Having Obstacle Detection Force Sensors Thereon and Related Methods	16/125,051	09/07/2018	10824159	11/03/2020	iRobot Corporation
Mobile robot providing environmental mapping for household environmental control	16/138,155	09/21/2018			iRobot Corporation
Coverage robot navigating	16/180,176	11/05/2018	11157015	10/26/2021	iRobot Corporation
Evacuation station	16/184,450	11/08/2018			iRobot Corporation
Electrostatic discharge bar for robotic vacuum	16/184,537	11/08/2018	10967749	04/06/2021	iRobot Corporation
Robotic mowing of separated lawn areas	16/185,422	11/09/2018	10874045	12/29/2020	iRobot Corporation
Cleaning head including cleaning rollers for cleaning robots	16/185,472	11/09/2018	10905297	02/02/2021	iRobot Corporation
Systems and Methods for Performing Simultaneous Localization and Mapping using Machine Vision Systems	16/189,402	11/13/2018	10705535	07/07/2020	iRobot Corporation
Cleaning pads for autonomous floor cleaning robots	16/205,611	11/30/2018	10791902	10/06/2020	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Mast Systems for Autonomous Mobile Robots	16/216,386	12/11/2018	11110595	09/07/2021	iRobot Corporation
Autonomous surface cleaning robot for wet and dry cleaning	16/229,690	12/21/2018	11185204	11/30/2021	iRobot Corporation
Debris collection device for autonomous cleaning robots	16/235,945	12/28/2018	11317773	05/03/2022	iRobot Corporation
Electrical connection for robot vacuum lid	16/236,694	12/31/2018	11122951	09/21/2021	iRobot Corporation
Mapping, controlling, and displaying networked devices with a mobile cleaning robot	16/236,844	12/31/2018			iRobot Corporation
Wheel for autonomous cleaning robot	16/239,018	01/03/2019	11027580	06/08/2021	iRobot Corporation
Methods and systems for complete coverage of a surface by an autonomous robot	16/251,926	01/18/2019	11052540	07/06/2021	iRobot Corporation
Debris sensor for cleaning apparatus	16/252,460	01/18/2019	10595695	03/24/2020	iRobot Corporation
Systems and Methods for Home Cleaning	16/264,268	01/31/2019	10463217	11/05/2019	iRobot Corporation
Coverage robots and associated cleaning bins	16/269,251	02/06/2019	11246466	02/15/2022	iRobot Corporation
Cleaning roller for an autonomous mobile robot	16/288,699	02/28/2019	11109727	09/07/2021	iRobot Corporation
Blade Guard for a Robot Lawnmower	16/369,702	03/29/2019	11058053	07/13/2021	iRobot Corporation
Debris monitoring	16/369,827	03/29/2019	10758104	09/01/2020	iRobot Corporation
Mobile cleaning robot with a bin	16/371,929	04/01/2019	11357371	06/14/2022	iRobot Corporation
System and method for autonomous mopping of a floor surface	16/382,864	04/12/2019	11350810	06/07/2022	iRobot Corporation
Systems and methods for configurable operation of a robot based on area classification	16/388,286	04/18/2019	11314260	04/26/2022	iRobot Corporation



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Autonomous coverage robot	16/392,065	04/23/2019			iRobot Corporation
Light Indicator System for an Autonomous Mobile Robot	16/396,014	04/26/2019	11104268	08/31/2021	iRobot Corporation
Robot lawnmower mapping	16/397,653	04/29/2019	11231707	01/25/2022	iRobot Corporation
Mobile robot area cleaning	16/400,243	05/01/2019	11385653	07/12/2022	iRobot Corporation
Social behavior rules for a medical telepresence robot	16/418,605	05/21/2019	10780582	9/22/2020	Teladoc Health Inc.   iRobot Corporation
Control of Autonomous Mobile Robots	16/425,658	05/29/2019	11266287	03/08/2022	iRobot Corporation
Vacuum brush	16/429,430	06/03/2019	11058271	07/13/2021	iRobot Corporation
Mobile cleaning robots systems and methods	16/454,309	06/27/2019			iRobot Corporation
Integration of vslam and AR Kit in an RVC	16/508,705	07/11/2019			iRobot Corporation
Systems and Methods for Performing Occlusion Detection	16/511,119	07/15/2019	10611023	04/07/2020	iRobot Corporation
Robotic vacuum cleaning system	16/531,471	08/05/2019			iRobot Corporation
Cleaning system for autonomous robot	16/535,598	08/08/2019	11363933	06/21/2022	iRobot Corporation
Cleaning Pad for an Autonomous Cleaning Robot	16/536,815	08/09/2019			iRobot Corporation
Adjustable Cleaning Parameters for an Autonomous Cleaning Robot	16/536,903	08/09/2019			iRobot Corporation
Sensors for an Autonomous Cleaning Robot	16/537,024	08/09/2019			iRobot Corporation
Semantic Data in Home Cleaning Maps	16/537,155	08/09/2019	11249482	02/15/2022	iRobot Corporation
Magnetic field localization and navigation	16/538,737	08/12/2019			iRobot Corporation
Wet robot docking station	16/544,227	08/19/2019	11058276	07/13/2021	iRobot Corporation
Interfacing with a mobile telepresence robot	16/546,711	8/21/2019	11289192	3/29/2022	Intouch Technologies, Inc.   iRobot Corporation
Cleaning pad	16/548,268	08/22/2019	11272822	03/15/2022	iRobot Corporation
Control of evacuation stations	16/555,483	08/29/2019	11006806	05/18/2021	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Coverage robots and associated cleaning bins	16/561,606	09/05/2019	10646091	05/12/2020	iRobot Corporation
Mobile robot systems and methods using same	16/564,355	09/09/2019			iRobot Corporation
Debris evacuation for cleaning robots	16/564,519	09/09/2019			iRobot Corporation
Turn-minimizing or turn-reducing robot coverage	16/565,721	09/10/2019			iRobot Corporation
Vision Based Behaviors in an Autonomous Cleaning Robot	16/588,295	09/30/2019	11327483	05/10/2022	iRobot Corporation
Vertical sensing in an autonomous cleaning robot	16/588,575	09/30/2019	11330953	05/17/2022	iRobot Corporation
Evacuation station	16/592,403	10/03/2019	10595692	03/24/2020	iRobot Corporation
Blade assembly for a grass cutting mobile robot	16/631,109	01/14/2020			iRobot Corporation
Mobile cleaning robot cleaning head	16/662,548	10/24/2019	10966587	04/06/2021	iRobot Corporation
Systems and Methods for Home Cleaning	16/663,684	10/25/2019	11191407	12/07/2021	iRobot Corporation
Cleaning Bin for Cleaning Robot	16/664,058	10/25/2019			iRobot Corporation
Autonomous floor cleaning with a removable pad	16/664,065	10/25/2019	11324376	05/10/2022	iRobot Corporation
Floating bumper in autonomous cleaning robot	16/689,775	11/20/2019	11213181	01/04/2022	iRobot Corporation
Localization and mapping using physical features	16/707,383	12/09/2019			iRobot Corporation
Robot Docking using Magnetic Fields	16/707,840	12/09/2019	11320835	05/03/2022	iRobot Corporation
Predictive maintenance of mobile cleaning robot	16/710,126	12/11/2019	11382473	07/12/2022	iRobot Corporation
Modular robot	16/718,450	12/18/2019			iRobot Corporation
Cleaning roller for cleaning robots	16/725,107	12/23/2019	11284769	03/29/2022	iRobot Corporation
Wall following robot	16/739,817	01/10/2020	11278175	03/22/2022	iRobot Corporation
Evacuation station system	16/751,890	01/24/2020	10791891	10/06/2020	iRobot Corporation
Removing debris from cleaning robots	16/774,849	01/28/2020			iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Control of autonomous robots	16/794,855	02/19/2020			iRobot Corporation
Systems and methods for managing a semantic map in a mobile robot	16/804,749	02/28/2020			iRobot Corporation
Mobile cleaning robot hardware recommendations	16/805,274	02/28/2020			iRobot Corporation
Systems and methods for spot cleaning by a mobile robot	16/806,661	03/02/2020	11160432	11/02/2021	iRobot Corporation
Clinical workflows utilizing autonomous and semi-autonomous telemedicine devices	16/807,017	03/02/2020			Teladoc Health Inc.   iRobot Corporation
Time-dependent navigation of telepresence robots	16/817,497	03/12/2020			Teladoc Health Inc.   iRobot Corporation
Evacuation station	16/827,389	03/23/2020			iRobot Corporation
Cleaning Pad for Cleaning Robot	16/827,416	03/23/2020			iRobot Corporation
Cleaning roller for cleaning robots	16/827,430	03/23/2020	11241082	02/08/2022	iRobot Corporation
Celestial navigation system for an autonomous vehicle	16/827,434	03/23/2020	11209833	12/28/2021	iRobot Corporation
Celestial navigation system for an autonomous vehicle	16/827,447	03/23/2020			iRobot Corporation
Restricting movement of a mobile robot	16/849,241	04/15/2020			iRobot Corporation
Methods, systems, and devices for mapping wireless communication signals for mobile robot guidance	16/850,263	04/16/2020			iRobot Corporation
Reducing cleaning roller amplitude and speed oscillations of a cleaning robot	16/871,149	05/11/2020	11369242	06/28/2022	iRobot Corporation
Debris collection device for autonomous cleaning robots	16/879,422	05/20/2020	10918251	02/16/2021	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Contextual and user experience-based mobile robot scheduling and control	16/887,982	05/29/2020			iRobot Corporation
Autonomous robot auto-docking and energy management systems and methods	16/890,367	06/02/2020			iRobot Corporation
Control of autonomous mobile robots	16/895,848	06/08/2020			iRobot Corporation
Contextual and user experience based mobile robot control	16/933,401	07/20/2020			iRobot Corporation
Application of localization, positioning and navigation systems for robotic enabled mobile products	16/938,323	07/24/2020			iRobot Corporation
Mobile robot docking systems and methods	16/942,874	07/30/2020	11292136	04/05/2022	iRobot Corporation
Systems and methods for scheduling mobile robot missions	16/950,226	11/17/2020			iRobot Corporation
Visual fiducial for behavior control zone	16/993,643	08/14/2020			iRobot Corporation
Robotic lawn mowing boundary determination	16/999,373	08/21/2020			iRobot Corporation
Evacuation dock with fluid management	17/009,856	09/02/2020			iRobot Corporation
Mobile Robot for Cleaning	17/011,689	09/03/2020			iRobot Corporation
Debris bins and mobile cleaning robots including same	17/019,924	09/14/2020			iRobot Corporation
Learned escape behaviors of a mobile robot	17/021,154	09/15/2020			iRobot Corporation
Object localization and recognition using fractional occlusion frustum	17/021,193	09/15/2020			iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Robot localization and mapping accommodating non-unique landmarks	17/021,507	09/15/2020			iRobot Corporation
Particle filters and wifi robot localization and mapping	17/021,523	09/15/2020			iRobot Corporation
Social behavior rules for a medical telepresence robot	17/027,335	09/21/2020			Teladoc Health Inc.   iRobot Corporation
Controlling robotic lawnmowers	17/035,274	09/28/2020			iRobot Corporation
Mobile floor-cleaning robot with floor-type detection	17/036,281	09/29/2020	10893788	01/19/2021	iRobot Corporation
Celestial navigation system for an autonomous vehicle	17/037,057	09/29/2020	10990110	04/27/2021	iRobot Corporation
Cleaning pads for autonomous floor cleaning robots	17/060,818	10/01/2020			iRobot Corporation
User feedback on potential obstacles and error conditions detected by autonomous mobile robots	17/065,441	10/07/2020			iRobot Corporation
Autonomous Floor-Cleaning Robot Having Obstacle Detection Force Sensors Thereon and Related Methods	17/065,629	10/08/2020			iRobot Corporation
Removing debris from cleaning robots	17/072,308	10/16/2020			iRobot Corporation
Wet floorcare robot cleaner tank latch	17/073,877	10/19/2020			iRobot Corporation
Mobile floor-cleaning robot with floor-type detection	17/078,285	10/23/2020	11382478	07/12/2022	iRobot Corporation
Map based training and interface for mobile robots	17/098,929	11/16/2020			iRobot Corporation
Filtering devices for evacuation stations	17/101,734	11/23/2020			iRobot Corporation
Scheduling and control system for autonomous robots	17/107,758	11/30/2020			iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Evacuation station system	17/114,055	12/07/2020			iRobot Corporation
Dynamic camera adjustments in a robotic vacuum cleaner	17/123,387	12/16/2020			iRobot Corporation
SYSTEMS AND METHODS FOR DOCK PLACEMENT FOR AN AUTONOMOUS MOBILE ROBOT (as amended)	17/134,658	12/28/2020			iRobot Corporation
Mobile cleaning robot artificial intelligence for situational awareness	17/135,258	12/28/2020			iRobot Corporation
Graphical user interfaces including touchpad driving interfaces for telemedicine devices	17/146,306	01/11/2012			Teladoc Health Inc.   iRobot Corporation
SYSTEMS AND METHODS FOR PRIVACY MANAGEMENT IN AN AUTONOMOUS MOBILE ROBOT (as amended)	17/146,563	01/12/2021			iRobot Corporation
Remote control scheduler and method for autonomous robotic device	17/150,972	01/15/2021			iRobot Corporation
Methods, systems, and devices for mapping, controlling, and displaying device status	17/151,289	01/18/2021			iRobot Corporation
Evacuation station	17/201,244	03/15/2021			iRobot Corporation
Autonomous floor cleaning with removable pad	17/208,610	03/22/2021			iRobot Corporation
Autonomous mobile robots for air purification	17/214,406	03/26/2021			iRobot Corporation
Carpet drift estimation using differential sensors or visual measurements	17/223,406	04/06/2021			iRobot Corporation
Navigational control of autonomous cleaning robots	17/239,166	04/23/2021			iRobot Corporation
Mapping interface for mobile robots	17/308,299	05/05/2021			iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Systems and methods to control an autonomous mobile robot	17/317,200	05/11/2021			iRobot Corporation
Control of evacuation stations	17/320,484	05/14/2021	11375866	07/05/2022	iRobot Corporation
Mapping interface for mobile robots	17/325,072	05/19/2021			iRobot Corporation
Sidebrush for an Autonomous Cleaning Robot	17/345,585	06/11/2021			iRobot Corporation
Interface for robot cleaner evacuation	17/347,834	06/15/2021			iRobot Corporation
Systems and methods for visual docking in an autonomous mobile robot	17/363,107	06/30/2021			iRobot Corporation
User interfaces for autonomous cleaning robots	17/364,580	06/30/2021			iRobot Corporation
Filtering devices for evacuation stations	17/369,751	07/07/2021			iRobot Corporation
Celestial navigation system for an autonomous vehicle	17/371,022	07/08/2021	11378973	07/05/2022	iRobot Corporation
Celestial navigation system for an autonomous vehicle	17/371,028	07/08/2021			iRobot Corporation
Celestial navigation system for an autonomous vehicle	17/371,033	07/08/2021	11360484	06/14/2022	iRobot Corporation
Celestial navigation system for an autonomous vehicle	17/371,034	07/08/2021			iRobot Corporation
Vacuum brush	17/371,239	07/09/2021			iRobot Corporation
Autonomous coverage robot sensing	17/384,587	07/23/2021			iRobot Corporation
Two in one mobile cleaning robot	17/388,293	07/29/2021			iRobot Corporation
Mobile cleaning robot dustpan	17/388,302	07/29/2021			iRobot Corporation
Mobile cleaning robot with adjustable suspension	17/388,307	07/29/2021			iRobot Corporation
Mobile cleaning robot with skids	17/388,314	07/29/2021			iRobot Corporation
Seasonal recommendations for an autonomous mobile robot	17/410,775	08/24/2021			iRobot Corporation

Title	Application No.	Filing Date	Patent No.	Issue Date	Owner of Record
Application of localization, positioning and navigation systems for robotic enabled mobile products	17/410,883	08/24/2021			iRobot Corporation
Autonomous surface cleaning robot	17/410,901	08/24/2021			iRobot Corporation
Brush for autonomous cleaning robot	17/459,765	08/27/2021			iRobot Corporation
Light indicator system for an autonomous mobile robot	17/459,826	08/27/2021	11679713	Jun 20, 2023	iRobot Corporation
Cleaning rollers for cleaning robots	17/466,559	09/03/2021			iRobot Corporation
Electrical connection for robot vacuum lid	17/467,649	09/07/2021			iRobot Corporation
Systems and methods for spot cleaning by a mobile robot	17/516,413	11/01/2021			iRobot Corporation
Seasonal cleaning zones for mobile cleaning robot	17/522,381	11/09/2021			iRobot Corporation
Navigation in an Autonomous Mobile Robot	17/532,863	11/22/2021			iRobot Corporation
Cleaning of Pet Areas by Autonomous Cleaning Robots	17/543,212	12/06/2021			iRobot Corporation
Transferable intelligent control device	17/570,772	01/07/2022			iRobot Corporation
Cleaning roller for cleaning robots	17/665,973	02/07/2022			iRobot Corporation
Coverage robots and associated cleaning bins	17/670,963	02/14/2022	11672399	Jun 13, 2023	iRobot Corporation
Mapping for autonomous mobile robots	17/671,183	02/14/2022			iRobot Corporation
Maintenance Reminders in Autonomous Mobile Robots	17/673,386	02/16/2022			iRobot Corporation
Mobile cleaning robot suspension	17/682,021	02/28/2022			iRobot Corporation
Control of autonomous mobile robots	17/688,372	03/07/2022			iRobot Corporation
Interfacing With a Mobile Telepresence Robot	17/694,348	03/14/2022			Intouch Technologies, Inc.   iRobot Corporation



<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Scheduling system for autonomous robots	17/698,573	03/18/2022			iRobot Corporation
Cleaning roller for cleaning robots	17/705,895	03/28/2022			iRobot Corporation
Vision Based Behaviors in an Autonomous Cleaning Robot	17/713,910	04/05/2022			iRobot Corporation
Systems and methods for configurable operation of a robot based on area classification	17/718,079	04/11/2022			iRobot Corporation
Debris collection device for autonomous cleaning robots	17/720,612	04/14/2022			iRobot Corporation
Autonomous floor cleaning with a removable pad	17/732,277	04/28/2022			iRobot Corporation
Mobile robot cleaning head suspension	17/732,735	04/29/2022			iRobot Corporation
Settings for mobile robot control	17/732,744	04/29/2022			iRobot Corporation
Vertical sensing in an autonomous cleaning robot	17/732,939	04/29/2022			iRobot Corporation
Pad Changing System for Robotic Vacuum Cleaners	17/744,285	05/13/2022			iRobot Corporation
Pad Cleaning System for Robotic Vacuum Cleaners	17/748,361	05/19/2022			iRobot Corporation
Control of evacuation stations	17/826,080	05/26/2022			iRobot Corporation
Mobile cleaning robot with a bin	17/833,381	06/06/2022			iRobot Corporation
Cleaning pad assembly for mobile robot	17/837,676	06/10/2022			iRobot Corporation
Reducing cleaning roller amplitude and speed oscillations of a cleaning robot	17/846,484	06/22/2022	11678780	Jun 20, 2023	iRobot Corporation
Mobile cleaning robot with variable cleaning features	17/859,230	07/07/2022			iRobot Corporation
Robotic cleaner	29/353,282	01/06/2010	D625059	10/05/2010	iRobot Corporation
Robotic cleaner	29/353,300	01/06/2010	D625477	10/12/2010	iRobot Corporation

Title	Application No.	Filing Date	Patent No.	Issue Date	Owner of Record
Robotic cleaner	29/353,301	01/06/2010	D625060	10/05/2010	iRobot Corporation
Cleaning pad assembly	29/353,303	01/06/2010	D625062	10/05/2010	iRobot Corporation
Projector assembly	29/353,305	01/06/2010	D629827	12/28/2010	iRobot Corporation
Air Filter for a Robotic Vacuum	29/382,224	12/30/2010	D672928	12/18/2012	iRobot Corporation
Robot vacuum cleaner	29/382,282	12/30/2010	D670877	11/13/2012	iRobot Corporation
Robot vacuum cleaner	29/382,284	12/30/2010	D659311	05/08/2012	iRobot Corporation
Robot vacuum cleaner	29/382,285	12/30/2010	D660530	05/22/2012	iRobot Corporation
Cleaning Element for a Robotic Vacuum	29/419,602	04/30/2012	D699010	02/04/2014	iRobot Corporation
Mobile human interface robot	29/457,143	6/7/2013	D732,096	6/16/2015	iRobot Corporation
Vacuum roller	29/470,255	10/18/2013	D728877	05/05/2015	iRobot Corporation
Filter	29/471,673	11/04/2013	D754315	04/19/2016	iRobot Corporation
Cleaning Element for a Robotic Vacuum	29/477,111	12/19/2013	D716510	10/28/2014	iRobot Corporation
Robot	29/503,409	09/25/2014	D734576	07/14/2015	iRobot Corporation
Robot	29/503,410	09/25/2014	D738585	09/08/2015	iRobot Corporation
Robot	29/503,411	09/25/2014	D748878	02/02/2016	iRobot Corporation
Robot	29/503,412	09/25/2014	D734907	07/21/2015	iRobot Corporation
Cleaning pad	29/503,418	09/25/2014	D782139	03/21/2017	iRobot Corporation
Robot confinement beacon	29/517,093	02/10/2015	D775990	01/10/2017	iRobot Corporation
Robot confinement beacon	29/517,104	02/10/2015	D775991	01/10/2017	iRobot Corporation
Robot	29/517,432	02/12/2015	D796757	09/05/2017	iRobot Corporation
Robot	29/517,441	02/12/2015	D784640	04/18/2017	iRobot Corporation
Robot	29/517,442	02/12/2015	D771332	11/08/2016	iRobot Corporation
Robot	29/517,444	02/12/2015	D790141	06/20/2017	iRobot Corporation
Robot	29/517,448	02/12/2015	D771333	11/08/2016	iRobot Corporation
Robot	29/517,453	02/12/2015	D781512	03/14/2017	iRobot Corporation
Floor cleaning roller core	29/517,617	02/13/2015	D776378	01/10/2017	iRobot Corporation
Floor cleaning roller core	29/519,200	03/03/2015	D774263	12/13/2016	iRobot Corporation
Vacuum roller	29/520,401	03/13/2015	D747052	01/05/2016	iRobot Corporation
Mobile human interface robot	29/524,194	4/17/2015	D735,258	7/28/2015	iRobot Corporation
Battery	29/528,770	06/01/2015	D759591	06/21/2016	iRobot Corporation
Battery	29/528,771	06/01/2015	D759586	06/21/2016	iRobot Corporation
Filter	29/541,499	10/05/2015	D809115	01/30/2018	iRobot Corporation
Wheeled robot	29/552,124	01/20/2016	D813958	03/27/2018	iRobot Corporation
Filter	29/556,794	03/03/2016	D826389	08/21/2018	iRobot Corporation
Cleaning pad ornamentation	29/558,001	03/14/2016	D833096	11/06/2018	iRobot Corporation
Robot navigation beacon	29/559,470	03/29/2016	D864778	10/29/2019	iRobot Corporation

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Sep 27, 2023

Date

Title	Application No.	Filing Date	Patent No.	Issue Date	Owner of Record
Evacuation station	29/646,572	05/04/2018	D924522	07/06/2021	iRobot Corporation
Debris container	29/646,574	05/04/2018	D930053	09/07/2021	iRobot Corporation
Debris container	29/646,577	05/04/2018	D890231	07/14/2020	iRobot Corporation
Debris container	29/646,579	05/04/2018	D893561	08/18/2020	iRobot Corporation
Evacuation station	29/646,583	05/04/2018	D908993	01/26/2021	iRobot Corporation
Debris container	29/646,584	05/04/2018	D893562	08/18/2020	iRobot Corporation
Evacuation station	29/646,585	05/04/2018	D908992	01/26/2021	iRobot Corporation
Robotic lawnmower dimples	29/654,884	06/28/2018	D922444	06/15/2021	iRobot Corporation
Robotic lawnmower antenna	29/654,888	06/28/2018	D906373	12/29/2020	iRobot Corporation
Mounting card for a cleaning pad for an autonomous floor cleaning robot	29/663,245	09/13/2018	D921311	06/01/2021	iRobot Corporation
Cleaning pad for an autonomous floor cleaning robot and associated mounting card	29/663,247	09/13/2018	D921312	06/01/2021	iRobot Corporation
Autonomous floor cleaning robot	29/671,898	11/30/2018	D938115	12/07/2021	iRobot Corporation
Navigational beacon	29/687,372	04/12/2019	D902187	11/17/2020	iRobot Corporation
Battery	29/692,909	05/29/2019	D931797	09/28/2021	iRobot Corporation
Cover for a programmable robot	29/737,623	06/10/2020	D952719	05/24/2022	iRobot Corporation
Buttons for a programmable robot	29/737,626	06/10/2020	D952720	05/24/2022	iRobot Corporation
Debris container	29/741,450	07/13/2020			iRobot Corporation
Debris container	29/741,453	07/13/2020	D934314	10/26/2021	iRobot Corporation
A cover for a mobile cleaning robot	29/746,202	08/12/2020	D945098	03/01/2022	iRobot Corporation
Mobile cleaning robot	29/746,568	08/14/2020			iRobot Corporation
Evacuation station	29/746,570	08/14/2020	D969429	Nov 8, 2022	iRobot Corporation
Mobile cleaning robot	29/750,928	09/17/2020			iRobot Corporation
Evacuation station	29/793,017	07/02/2021	D961177	Aug 16, 2022	iRobot Corporation
Latch for a filtering device	29/798,364	07/07/2021	D982861	Apr 4, 2023	iRobot Corporation
Battery	29/809,265	09/27/2021			iRobot Corporation
Debris container	29/811,496	10/14/2021	D960211	Aug 9, 2022	iRobot Corporation
Top button and lid of an autonomous floor cleaning robot	29/814,635	11/08/2021	D961869	Aug 23, 2022	iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Cleaning pad for a mobile cleaning robot	29/842,164	06/10/2022			iRobot Corporation
Mobile cleaning robot	29/842,167	06/10/2022			iRobot Corporation
Robotic mowing of separated lawn areas	17067009	Oct 9, 2020	11589503	Feb 28, 2023	iRobot Corporation
					iRobot Corporation
Pad washing docking station	17816652	Aug 1, 2022			iRobot Corporation
Evacuation station	17822362	Aug 25, 2022			iRobot Corporation
Directing air streams at a target	17874553	Jul 27, 2022			iRobot Corporation
Evacuation station	17878411	Aug 1, 2022			iRobot Corporation
Mobile cleaning robot suspension	17878953	Aug 2, 2022			iRobot Corporation
Mobile cleaning robot hardware recommendations	17881900	Aug 5, 2022			iRobot Corporation
Dynamic Cleaning in and Autonomous Mobile Robot	17898674	Aug 30, 2022			iRobot Corporation
Systems and methods for monitoring autonomous robotic lawnmowers	17917505	Oct 6, 2022			iRobot Corporation
Control of autonomous robots	17934782	Sep 23, 2022			iRobot Corporation
Navigation of autonomous mobile robots	17934853	Sep 23, 2022	11607094	Mar 21, 2023	iRobot Corporation
Restricting movement of a mobile robot	17937598	Oct 3, 2022			iRobot Corporation
Behavior control of mobile cleaning robot	17947376	Sep 19, 2022			iRobot Corporation
Water ingestion behaviors of mobile cleaning robot	17947384	Sep 19, 2022			iRobot Corporation
Robotic vacuum cleaning system	17966317	Oct 14, 2022			iRobot Corporation
Systems and Methods for Improving Traction in an Autonomous Mobile Robot	17967235	Oct 17, 2022			iRobot Corporation
Proactive Maintenance in an Autonomous Mobile Robot	17991071	Nov 21, 2022			iRobot Corporation
Cleaning Roller for an Autonomous Mobile Robot	17994486	Nov 28, 2022			iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Evacuation Station with Large Debris Separation	18076718	Dec 7, 2022			iRobot Corporation
Cleaning Pad for Cleaning Robot	18079351	Dec 12, 2022			iRobot Corporation
Systems and Methods for Pet Care	18080245	Dec 13, 2022			iRobot Corporation
Lawn care robot	18096676	Jan 13, 2023			iRobot Corporation
SYSTEMS AND METHODS FOR PRIVACY MANAGEMENT IN AN AUTONOMOUS MOBILE ROBOT (as amended)	18104881	Feb 2, 2023			iRobot Corporation
Pad washing docking station	18106078	Feb 6, 2023			iRobot Corporation
Cleaning pads for autonomous floor cleaning robots	18114334	Feb 27, 2023			iRobot Corporation
Mapping negative space for autonomous mobile robot	18118825	Mar 8, 2023			iRobot Corporation
Integrated Evacuation Station and Rubbish Bin	18127776	Mar 29, 2023			iRobot Corporation
SYSTEMS AND METHODS FOR DOCK PLACEMENT FOR AN AUTONOMOUS MOBILE ROBOT (as amended)	18132592	Apr 10, 2023			iRobot Corporation
Mobile cleaning robot with active suspension	18139014	Apr 25, 2023			iRobot Corporation
Adjustable Cleaning Parameters for an Autonomous Cleaning Robot	18151863	Jan 9, 2023			iRobot Corporation
Mobile robot providing environmental mapping for household environmental control	18197251	May 15, 2023			iRobot Corporation
Robot localization and mapping accommodating non-unique landmarks	18202413	May 26, 2023			iRobot Corporation
Reducing cleaning roller amplitude and speed oscillations of a cleaning robot	18203153	May 30, 2023			iRobot Corporation

Title	Application No.	Filing Date	Patent No.	Issue Date	Owner of Record
Scrubbing Mechanism in a Cleaning Robot	18207346	Jun 8, 2023			iRobot Corporation
Visual Stasis Detection in Autonomous Mobile Robots	18211047	Jun 16, 2023			iRobot Corporation
Mobile cleaning robot with adjustable suspension	18216763	Jun 30, 2023			iRobot Corporation
Scheduling and control system for autonomous robots	18301767	Apr 17, 2023			iRobot Corporation
Mobile robot systems and methods using same	18307368	Apr 26, 2023			iRobot Corporation
Integration of vslam and AR Kit in an RVC	18310933	May 2, 2023			iRobot Corporation
Map based training and interface for mobile robots	18340663	Jun 23, 2023			iRobot Corporation
Top button and lid of an autonomous floor cleaning robot	29846681	Jul 19, 2022			iRobot Corporation
Personal fan system	29847680	Jul 27, 2022			iRobot Corporation
Cleaning robot tank with a mopping pad	29853067	Sep 13, 2022			iRobot Corporation
Evacuation station	29857584	Oct 24, 2022			iRobot Corporation
Debris container	29865685	Aug 8, 2022			iRobot Corporation
Latch for a filtering device	29872443	Mar 13, 2023			iRobot Corporation
Docking Station For a Mobile Cleaning Robot	29883403	Jan 27, 2023			iRobot Corporation
Cleaning pad for use in a mobile cleaning robot	29888224	Mar 29, 2023			iRobot Corporation
Drip Tray for Mopping Robot	29888229	Mar 29, 2023			iRobot Corporation
Semantic map object identification	63486711	Feb 24, 2023			iRobot Corporation
Object Placement in Semantic Maps	63486755	Feb 24, 2023			iRobot Corporation
Graphical user interfaces including touchpad driving interfaces for telemedicine devices	17992074	Nov 22, 2022			Teladoc Health, Inc.   iRobot Corporation
Clinical workflows utilizing autonomous and semi-autonomous telemedicine devices	17954155	Sep 27, 2022			Teladoc Health, Inc.   iRobot Corporation

<b>Title</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Owner of Record</b>
Removing debris from cleaning robots	16774849	Jan 28, 2020			iRobot Corporation

**Schedule B**

**Trademarks**

See attached.



## SCHEDULE TO TRADEMARK SECURITY AGREEMENT

Trademark	Application No.	Application Date	Registration No.	Registration Date	Owner of Record
AEROFORCE	86/007979	Jul-11-2013	4841802	Oct-27-2015	iRobot Corporation
ALLERGENLOCK	88/598600	Aug-29-2019	6196500	Nov-10-2020	iRobot Corporation
BRAAVA	85/808219	Dec-20-2012	4739497	May-19-2015	iRobot Corporation
BRAAVA JET	86/981647	Nov-18-2015	6096627	Jul-07-2020	iRobot Corporation
BRAAVA JET	86/825178	Nov-18-2015	5375798	Jan-09-2018	iRobot Corporation
BRAAVA JET	86/983372	Nov-18-2015	5375983	Jan-09-2018	iRobot Corporation
CLEAN BASE	87/926815	May-18-2018	5909226	Nov-12-2019	iRobot Corporation
CLEAN MAP	87/343635	Feb-21-2017	5728414	Apr-16-2019	iRobot Corporation
CORNERS, EDGES, AND THE DETAILS IN BETWEEN.	88/294646	Feb-08-2019	6014864	Mar-17-2020	iRobot Corporation
CREATE	77/055466	Dec-01-2006	3307997	Oct-09-2007	iRobot Corporation
HOME BASE	78/434543	Jun-14-2004	3223435	Mar-27-2007	iRobot Corporation
IADAPT	85/107916	Aug-16-2010	4096829	Feb-07-2012	iRobot Corporation
IF IT'S NOT FROM IROBOT, IT'S NOT A ROOMBA	88/588717	Aug-22-2019	6458611	Aug-24-2021	iRobot Corporation
IMPRINT	88/031171	Jul-10-2018	5858561	Sep-10-2019	iRobot Corporation
iR (Stylized with circle) (bw)	87/117552	Jul-27-2016	6471152	Aug-31-2021	iRobot Corporation
iR (Stylized)	87/117555	Jul-27-2016	6471153	Aug-31-2021	iRobot Corporation
IROBOT	86/592681	Apr-09-2015	5745735	May-07-2019	iRobot Corporation
IROBOT	78/493097	Oct-01-2004	3078786	Apr-11-2006	iRobot Corporation
IROBOT	78/166757	Sep-23-2002	2831865	Apr-13-2004	iRobot Corporation
IROBOT	97/048111	Sep-27-2021	7076545	Jun-06-2023	iRobot Corporation
IROBOT	88/496636	Jul-01-2019	5915012	Nov-19-2019	iRobot Corporation
iRobot (2016 Stylization)	87/983289	Jul-27-2016	6136859	Aug-25-2020	iRobot Corporation
iRobot (2016 Stylization)	87/117547	Jul-27-2016	6547867	Nov-02-2021	iRobot Corporation
iRobot (2016 Stylization) (green)	97/048129	Sep-27-2021	7039921	May-02-2023	iRobot Corporation
iRobot (Stylized)	85/809359	Dec-21-2012	4599604	Sep-09-2014	iRobot Corporation

Trademark	Application No.	Application Date	Registration No.	Registration Date	Owner of Record
iRobot AUTHENTIC PARTS and Design (2016 Stylization)	87/453660	May-17-2017	5571554	Sep-25-2018	iRobot Corporation
iRobot AUTHORIZED RESELLER and Vertical Design (2016 Stylization)	87/453677	May-17-2017	5571555	Sep-25-2018	iRobot Corporation
LOOJ	77/131594	Mar-15-2007	3696301	Oct-13-2009	iRobot Corporation
MAKING SMART HOMES THOUGHTFUL	97/409321	May-13-2022			iRobot Corporation
MIRRA	85/806482	Dec-19-2012	4739494	May-19-2015	iRobot Corporation
MORE THOUGHTFUL THAN YOU THOUGHT	97/409306	May-13-2022			iRobot Corporation
NORTHSTAR	76/604052	Jul-26-2004	3165681	Oct-31-2006	iRobot Corporation
P.O.O.P. PET OWNER OFFICIAL PROMISE and Design	97/016707	Sep-08-2021	6679624	Mar-22-2022	iRobot Corporation
PERFECTEDGE	77/904920	Jan-05-2010	3935495	Mar-22-2011	iRobot Corporation
ROOMBA	90/594504	Mar-22-2021	7008897	Mar-28-2023	iRobot Corporation
ROOMBA	78/119486	Apr-04-2002	2772676	Oct-07-2003	iRobot Corporation
ROOMBA	78/164987	Sep-17-2002	2742056	Jul-29-2003	iRobot Corporation
ROOMBA COMBO	88/929190	May-22-2020	7087368	Jun-20-2023	iRobot Corporation
ROOT	87/212074	Oct-21-2016	5656294	Jan-15-2019	iRobot Corporation
SCOوبا	78/546362	Jan-12-2005	3118330	Jul-18-2006	iRobot Corporation
TERRA	86/254177	Apr-16-2014	5874497	Oct-01-2019	iRobot Corporation
VIRTUAL WALL	78/337701	Dec-08-2003	2908757	Dec-07-2004	iRobot Corporation
VSLAM	76/481987	Jan-13-2003	2914903	Dec-28-2004	iRobot Corporation
D.R.I. DRY RUG INTELLIGENCE and Circle Design with Rug Water Drop	97/888672	Apr-14-2023			iRobot Corporation

**Schedule C**

**Copyrights**

See attached.

**SCHEDULE TO COPYRIGHT SECURITY AGREEMENT**

COPYRIGHT TITLE		REGISTRATION NUMBER	REGISTRATION DATE	CLAIMANT
1.	iRobot Roomba Quick Start Guide.	TX0007361518	04/13/2011	iRobot Corporation
2.	iRobot Roomba Owner's Manual.	TX0007361538	04/13/2011	iRobot Corporation
3.	iRobot Roomba End User License Agreement for iRobot Software and Roomba; Important Safety Instructions and Limited Warranty.	TX0007361522	04/13/2011	iRobot Corporation