

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7941608

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SEMICONDUCTOR COMPONENTS INDUSTRIES, LLC	05/02/2023
RECEIVING PARTY DATA	
Name:	MAXLINEAR, INC.
Street Address:	5966 LA PLACE COURT, SUITE 100
City:	CARLSBAD
State/Country:	CALIFORNIA
Postal Code:	92008
PROPERTY NUMBERS Total: 283	
Property Type	Number
Application Number:	11607431
Patent Number:	8090374
Application Number:	11607815
Patent Number:	8064835
Patent Number:	8090060
Patent Number:	8091012
Patent Number:	8073073
Patent Number:	8063839
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Application Number:	12278753
Patent Number:	8111790
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Property Type	Number
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Application Number:	63136408
Application Number:	63166814
Application Number:	63376323
Application Number:	63376324
Application Number:	63376325
Application Number:	63381274

CORRESPONDENCE DATA

Fax Number: (949)720-0182

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

Phone: 19497601121
Email: kgeis@buchalter.com
Correspondent Name: JASON W. CROFT
Address Line 1: BUCHALTER
Address Line 2: 18400 VON KARMAN AVENUE, SUITE 800
Address Line 4: IRVINE, CALIFORNIA 92612-0514

ATTORNEY DOCKET NUMBER:	M1248
NAME OF SUBMITTER:	JASON W. CROFT
SIGNATURE:	/Jason W. Croft/
DATE SIGNED:	05/08/2023

Total Attachments: 33

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CONFIRMATORY PATENT ASSIGNMENT

This Confirmatory Patent Assignment (this "**Assignment**") is entered into as of May 2, 2023 (the "**Effective Date**") by and between Semiconductor Components Industries, LLC d/b/a onsemi, a Delaware limited liability company having a place of business at 5701 North Pima Road, Scottsdale, AZ 85250, USA ("**Assignor**") and MaxLinear, Inc., a Delaware Corporation having a place of business at 5966 La Place Ct #100, Carlsbad, CA 92008 ("**Assignee**").

WHEREAS, it is the intention of Assignor and Assignee that Assignee own all right, title and interest in and to the patents hereinafter described on Schedule 1;

NOW, THEREFORE, in consideration of the mutual promises contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, Assignor hereby:

(A) irrevocably assigns, transfers and conveys to Assignee:

- (1) the entire right, title, and interest, everywhere in the world, to
 - (a) all patent assets (including issued patents and pending patent applications) set forth on Schedule 1,
 - (b) any United States, international and foreign counterparts or equivalents of any of the foregoing, and applications or certificates of invention based upon or covering any portion of any of the foregoing;
 - (c) any reissues, divisionals, renewals, extensions, provisionals, continuations, continuations-in-part, reexaminations, substitutions or revisions of any of the foregoing;
 - (d) any other patents, applications or extensions that claim priority to or through any of the foregoing or that claim any invention disclosed in any of the foregoing; and
 - (e) any patent granted pursuant to any applications comprised in any of the foregoing,

all of the foregoing in this Section (1), collectively are the "**Assigned Patents**";

- (2) all rights to enforce, recover, and retain any damages or obtain equitable relief for or collect license fees and/or royalties, for the past, ongoing, or future infringement, misappropriation, or use of any of the Assigned Patents,
- (3) all rights to sue or bring interference proceedings for past, present, and future infringements of the Assigned Patents;

Assignor initials: *KS*

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Assignee initials: _____

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REEL: 063572 FRAME: 0710

- (4) all causes of action (whether known or unknown, and whether or not currently pending or filed) and other enforcement rights under or on account of the Assigned Patents; and
 - (5) the right to sue third parties for infringement (including but not limited to past, present and future infringement, damages and injunctive relief) of the Assigned Patents based on activities occurring prior to the execution date hereof or hereafter.
- (B) agrees upon request (and at the expense) of Assignee (or its successors, assigns, or legal representatives) to execute all oaths, assignments, powers, and any other papers necessary to perform Assignor's obligations hereunder related to securing and enforcing Assignee's rights related to this Assignment; and
- (C) Assignor authorizes and requests the Director of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer said Assigned Patents to Assignee, as assignee of the entire right, title and interest therein.

The Assignor having read this Assignment and fully understanding the provisions of this Assignment, hereby executes this Assignment on behalf of Assignor as of the Effective Date.

Semiconductor Components Industries,
LLC d/b/a onsemi, Assignor

Signature: 

Name: Robert M. Tuttle

Title: Senior Vice President, Deputy
General Counsel and Chief Intellectual
Property (IP) Counsel

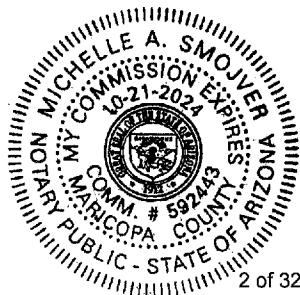
Date: May 2, 2023

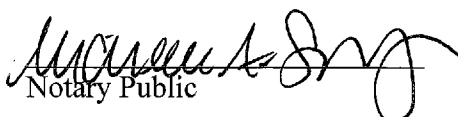
NOTARIAL ACKNOWLEDGEMENT

State of Arizona)
)
County of Maricopa)

On this 2 day of May, 2023, before me personally appeared Robert M. Tuttle whose identity was proven to me on the basis of satisfactory evidence to be the person who ~~he/she~~ claims to be, and acknowledged that he/~~she~~ signed the above document.

(Notary Seal)



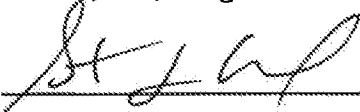

Notary Public

Assignor initials: ek

Assignee initials: _____

AGREED TO AND ACCEPTED:

MaxLinear, Inc., Assignee

By: 

Name: Steven G. Litchfield

Title: Chief Financial Officer
and Chief Corporate Strategy Officer

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 2023 before me _____

Personally appeared _____, proved to me on the basis of satisfactory evidence to the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of _____ that the foregoing paragraph is true and correct.

See Attached CA
Compliant Certificate

WITNESS my hand and official seal.


Signature of Notary Public

Assignor initials: 

3 of 32

Assignee initials: 

PATENT
REEL: 063572 FRAME: 0712

CALIFORNIA ACKNOWLEDGMENT**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

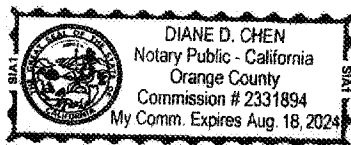
County of Orange }On May 4, 2023
Datebefore me, Diane D. Chen, Notary Public

Here Insert Name and Title of the Officer

personally appeared Steven G. Litchfield

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Diane D. Chen

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached DocumentTitle or Type of Document: Confirmatory Patent AssignmentDocument Date: 05/02/2023Number of Pages: 32Signer(s) Other Than Named Above: Robert M. Tuttle**PATENT****REEL: 063572 FRAME: 0713**

SCHEDULE 1

ASSIGNED PATENTS

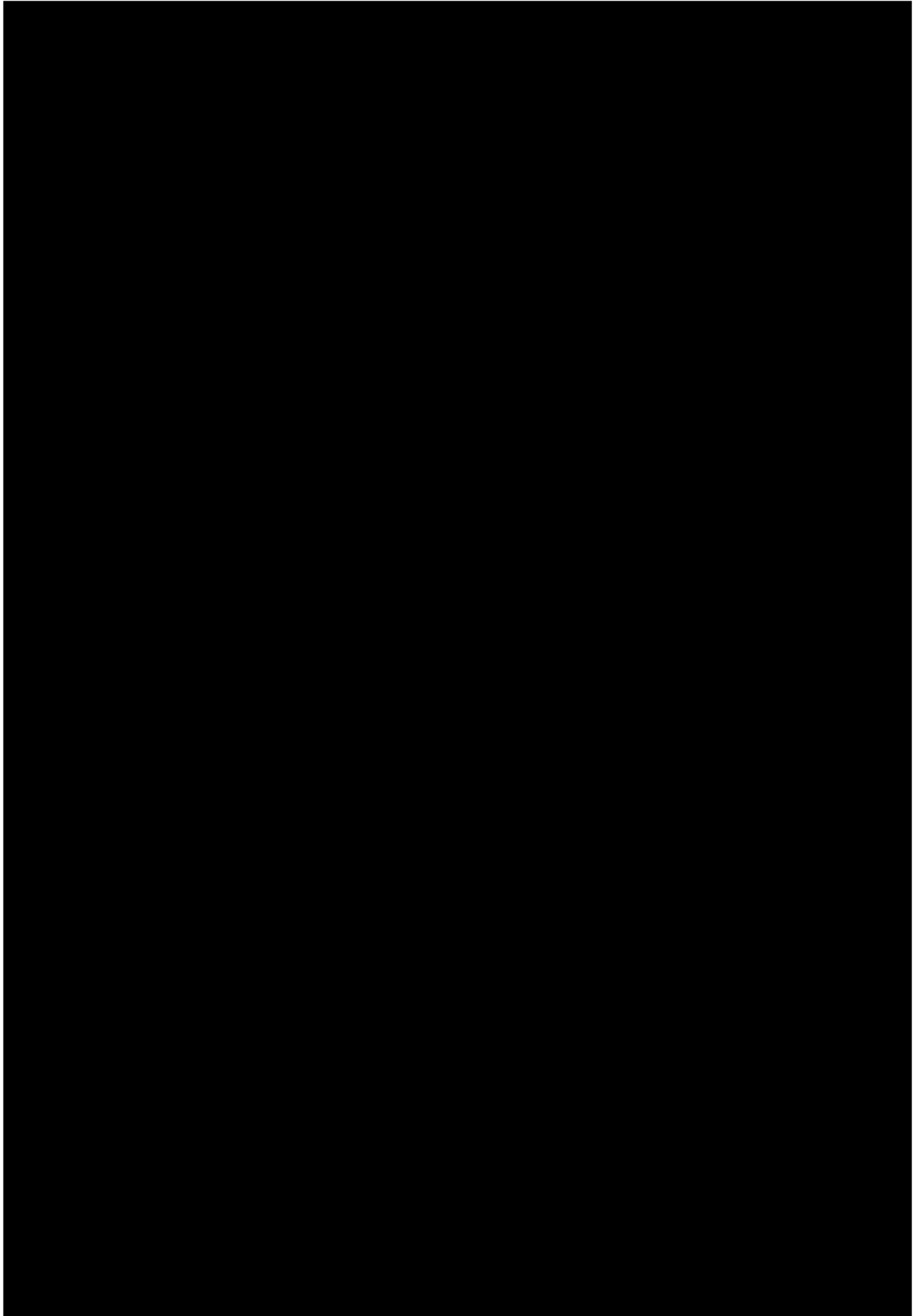
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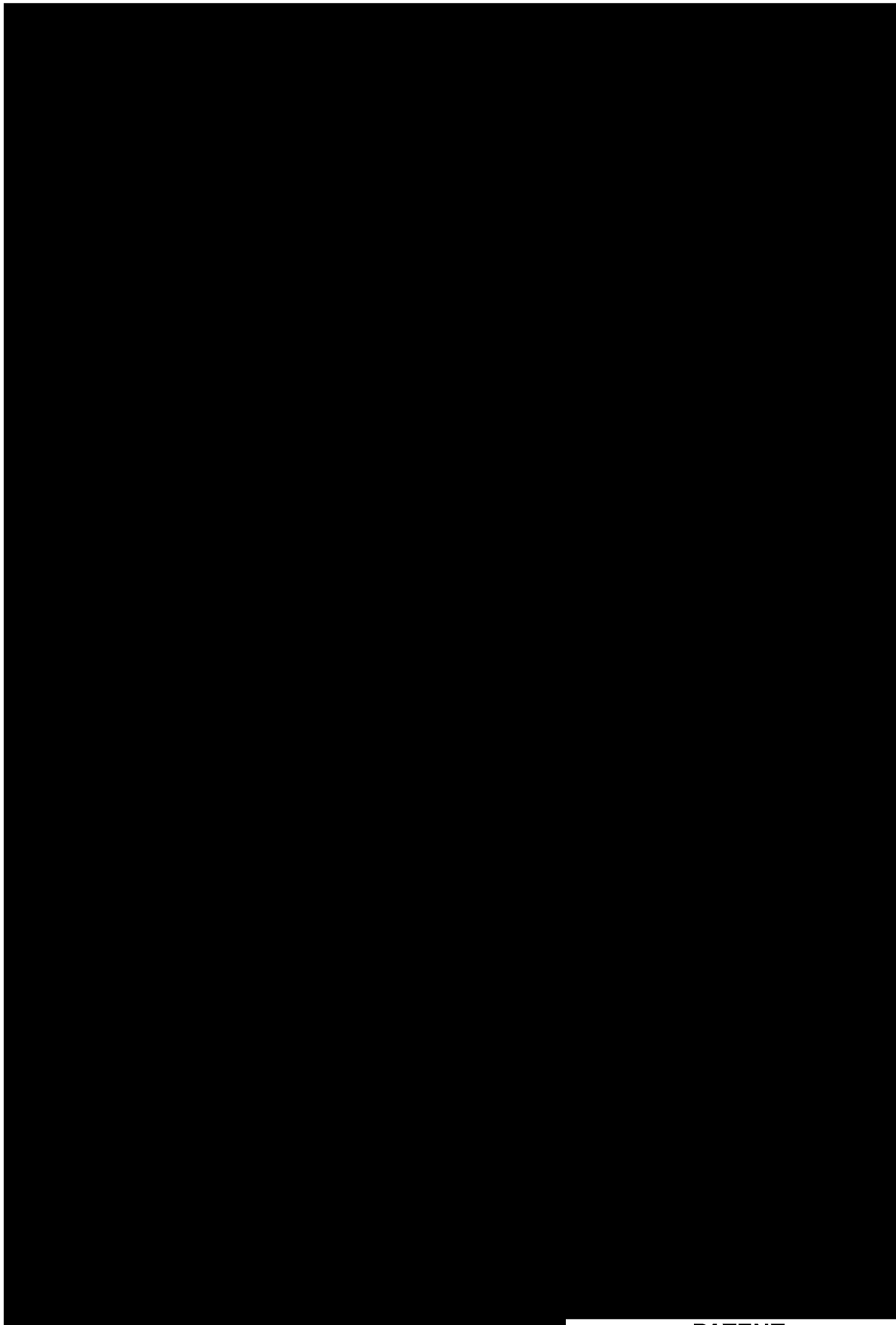
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PATENT
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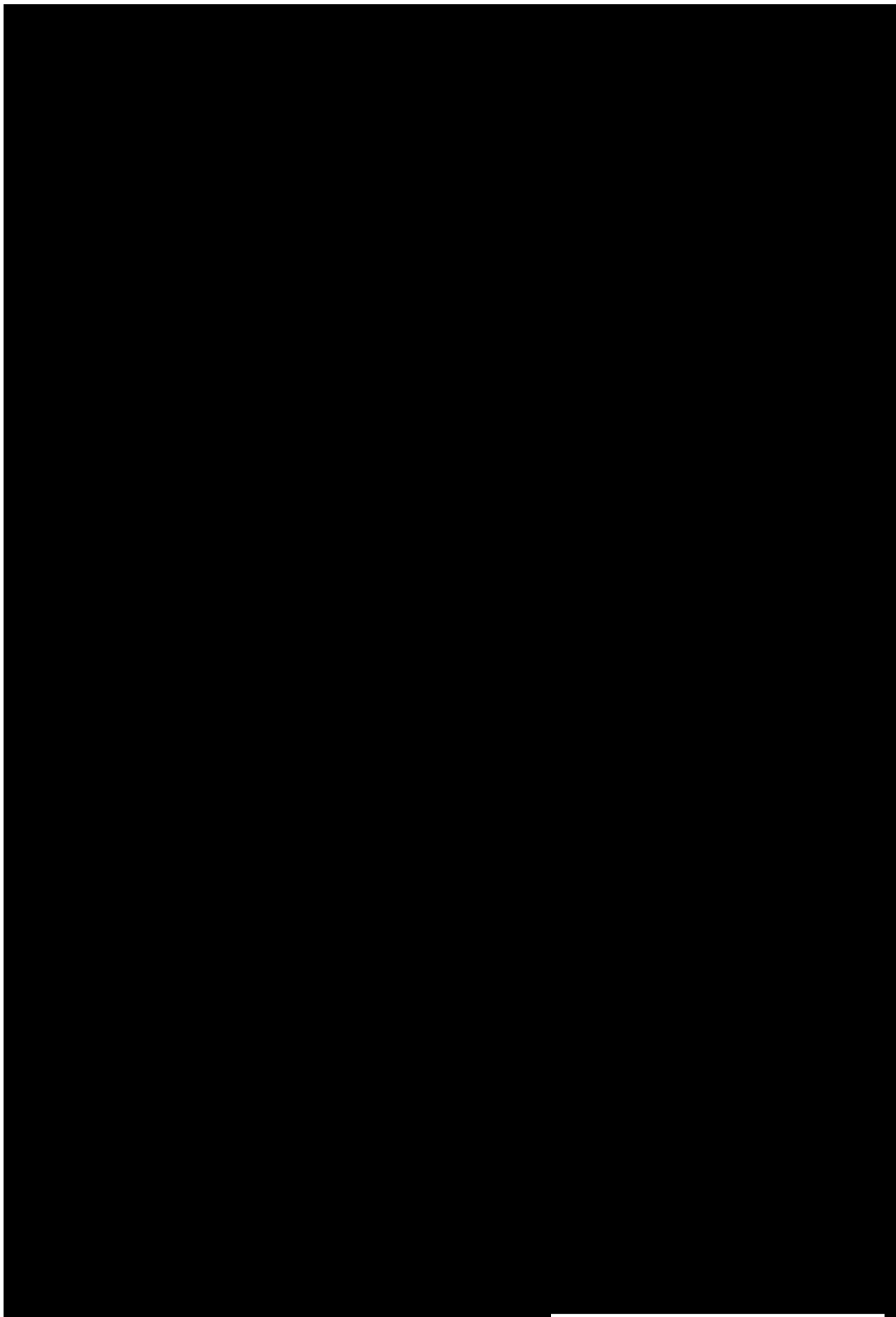
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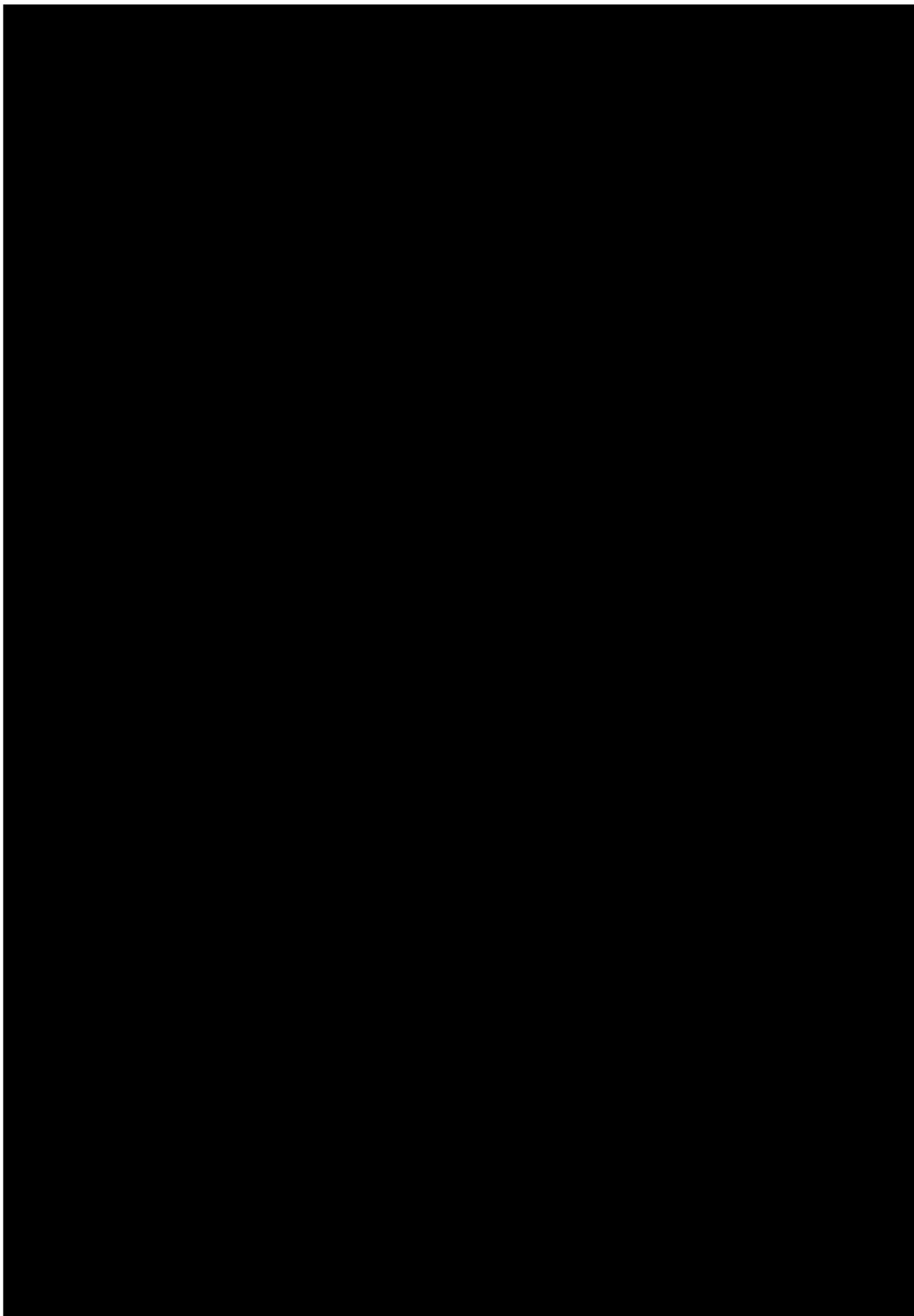
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SCHEDULE 1 - ASSIGNED PATENTS

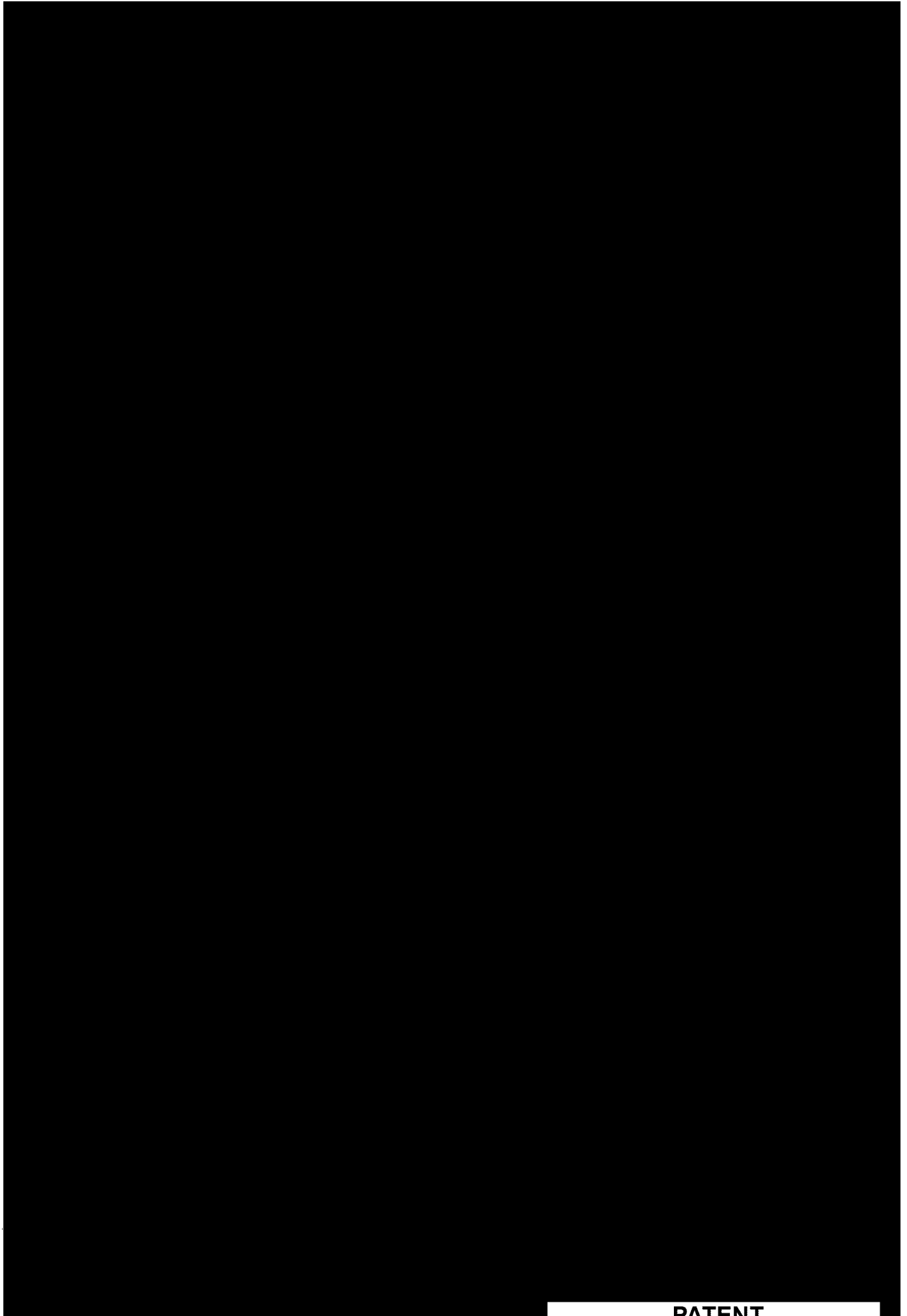


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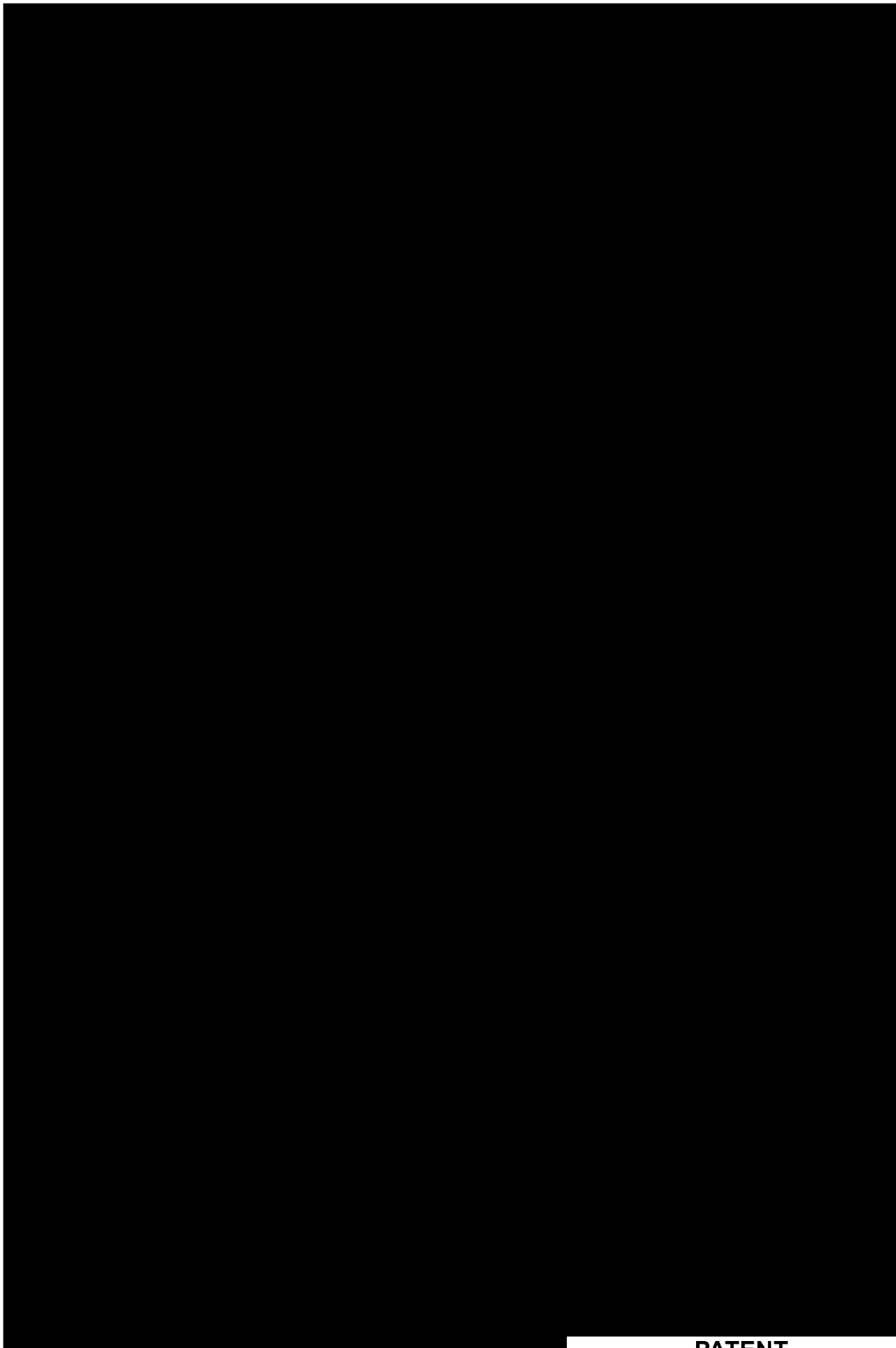


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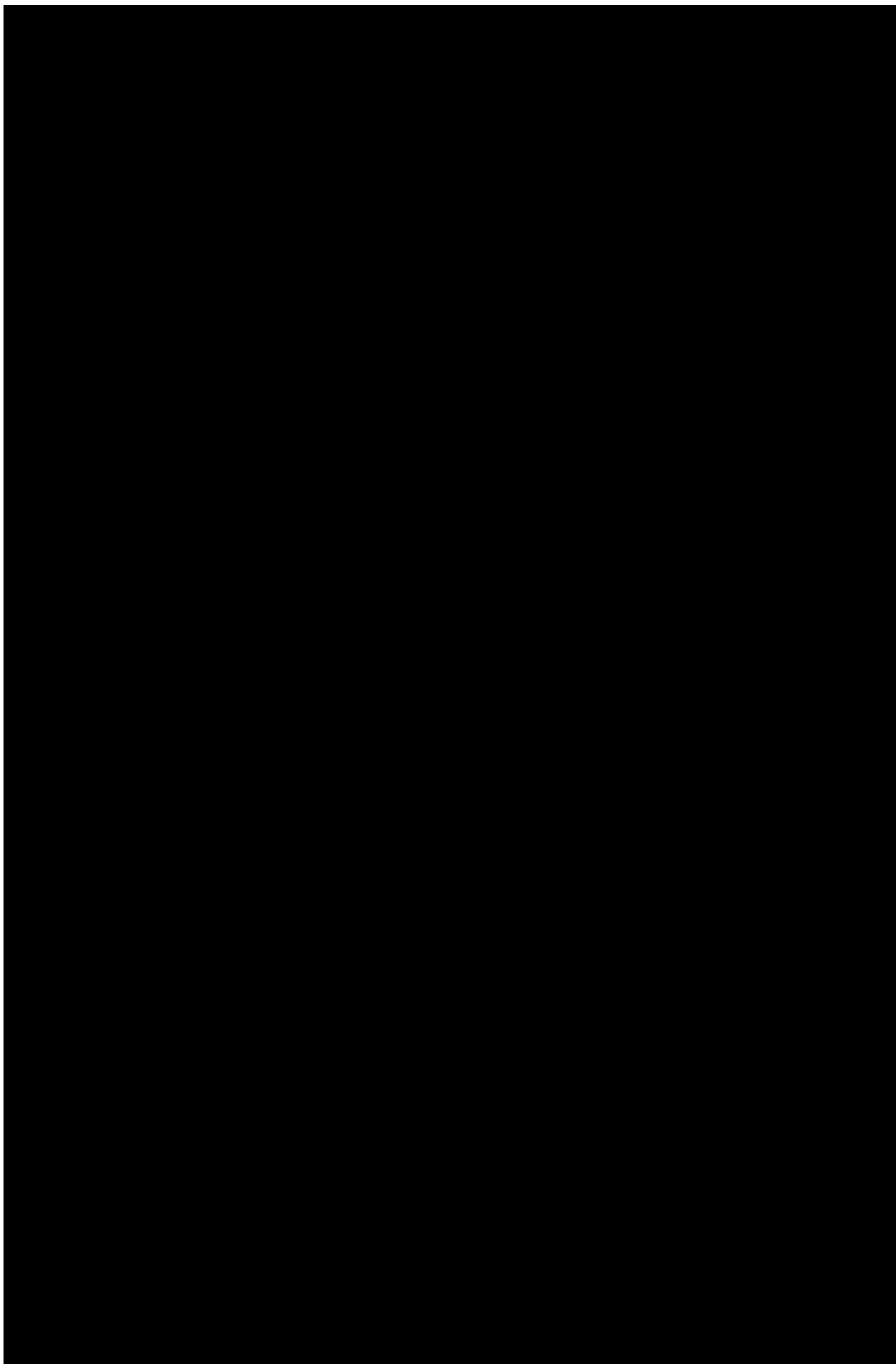
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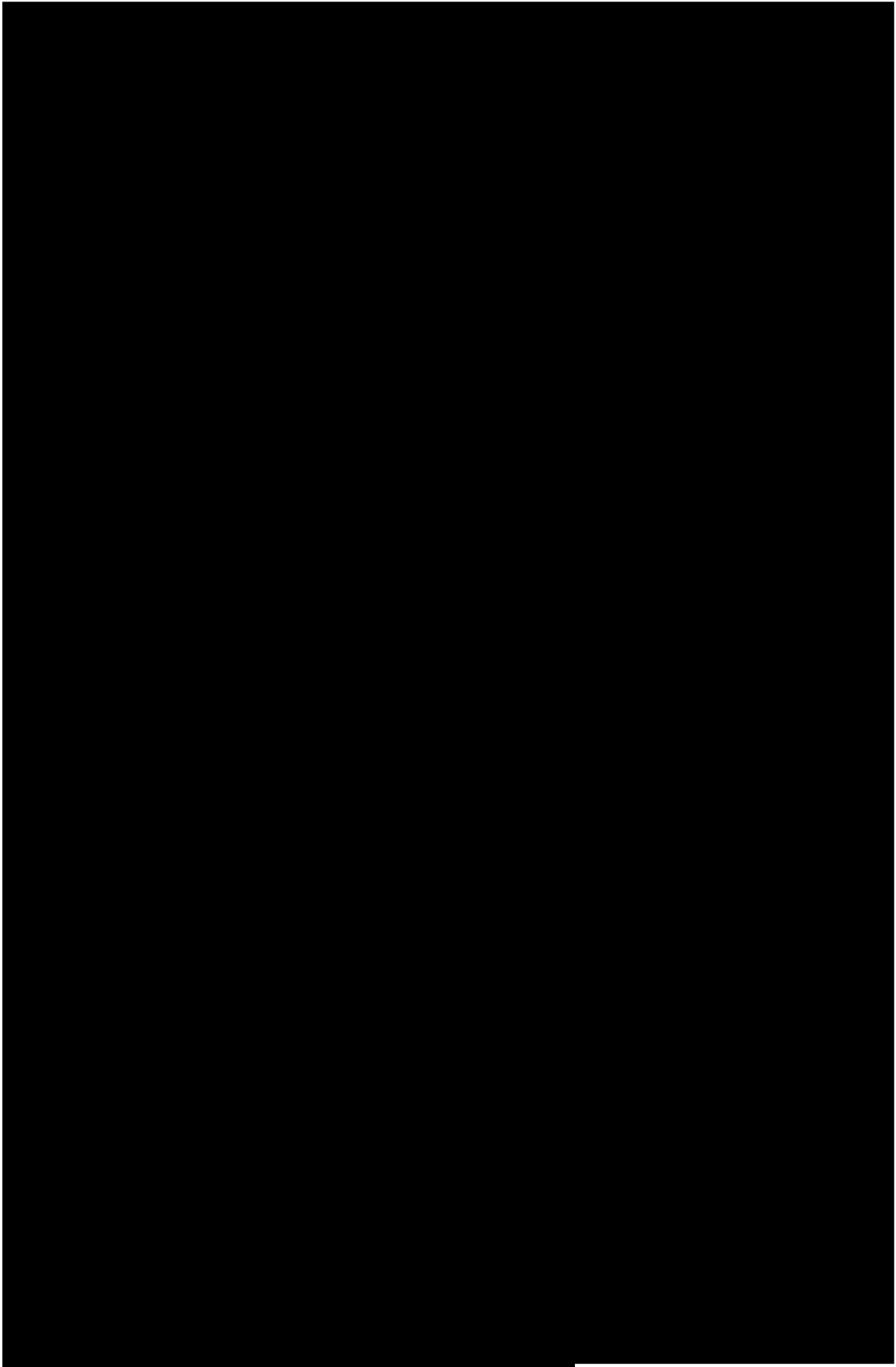
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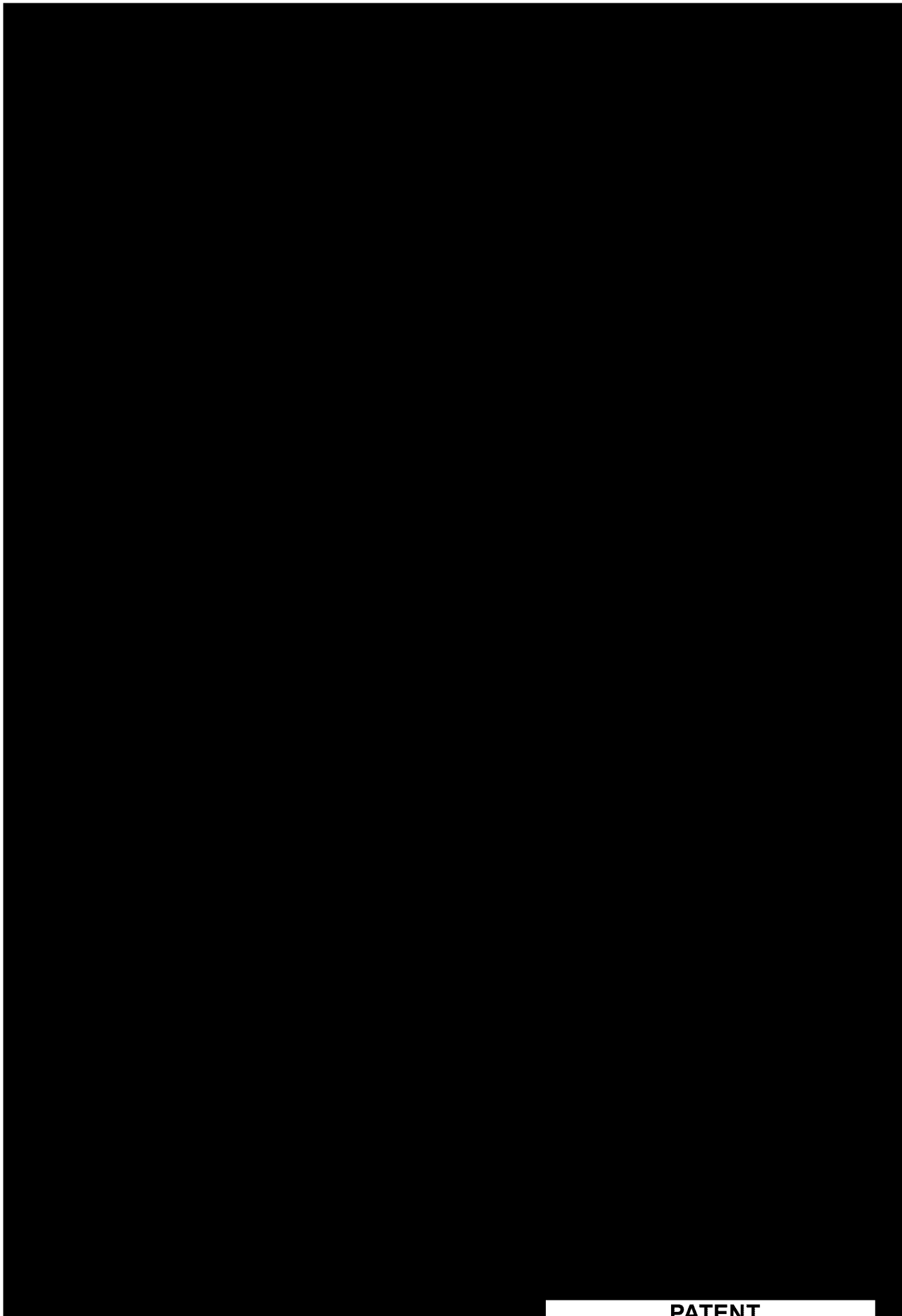
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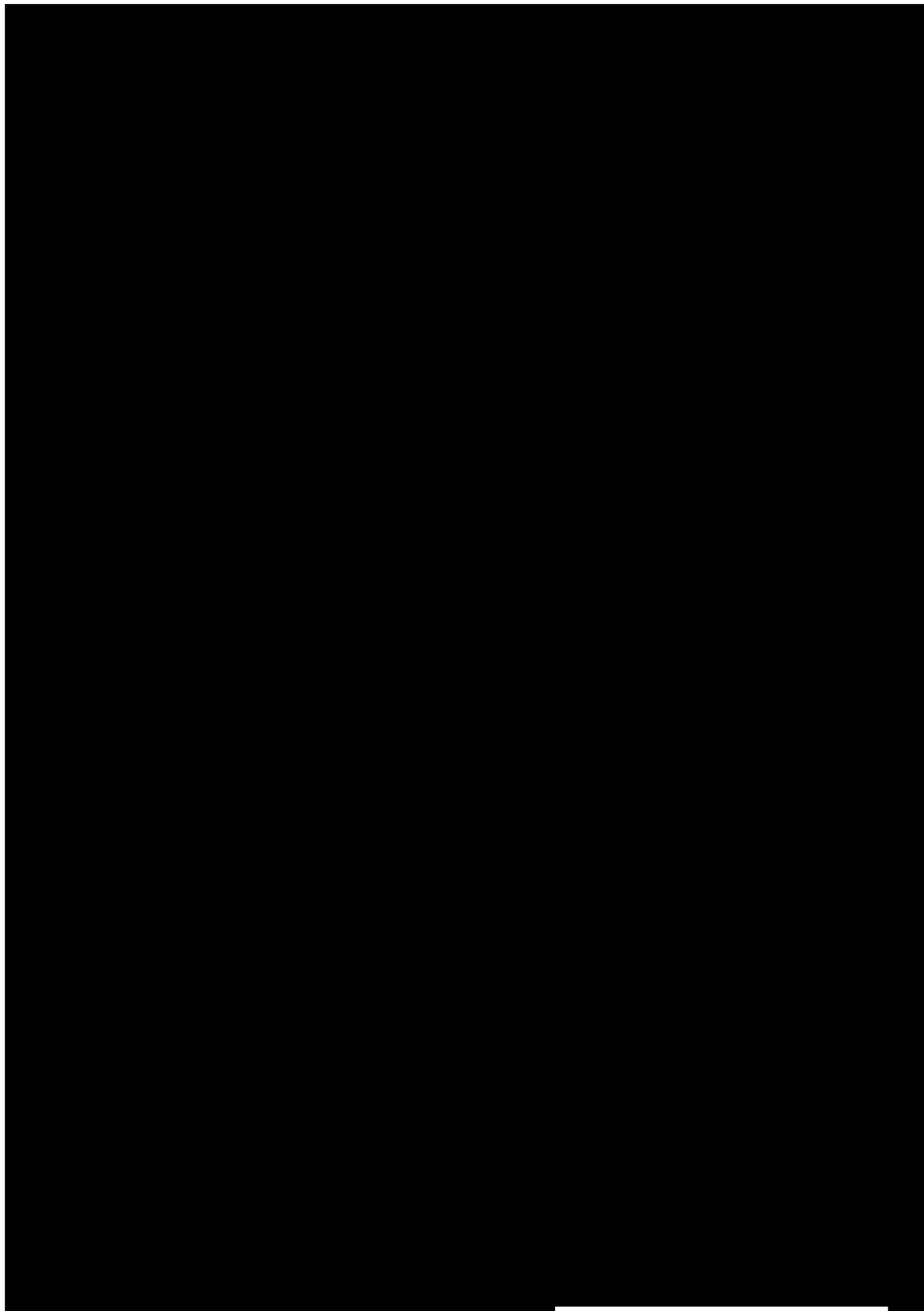
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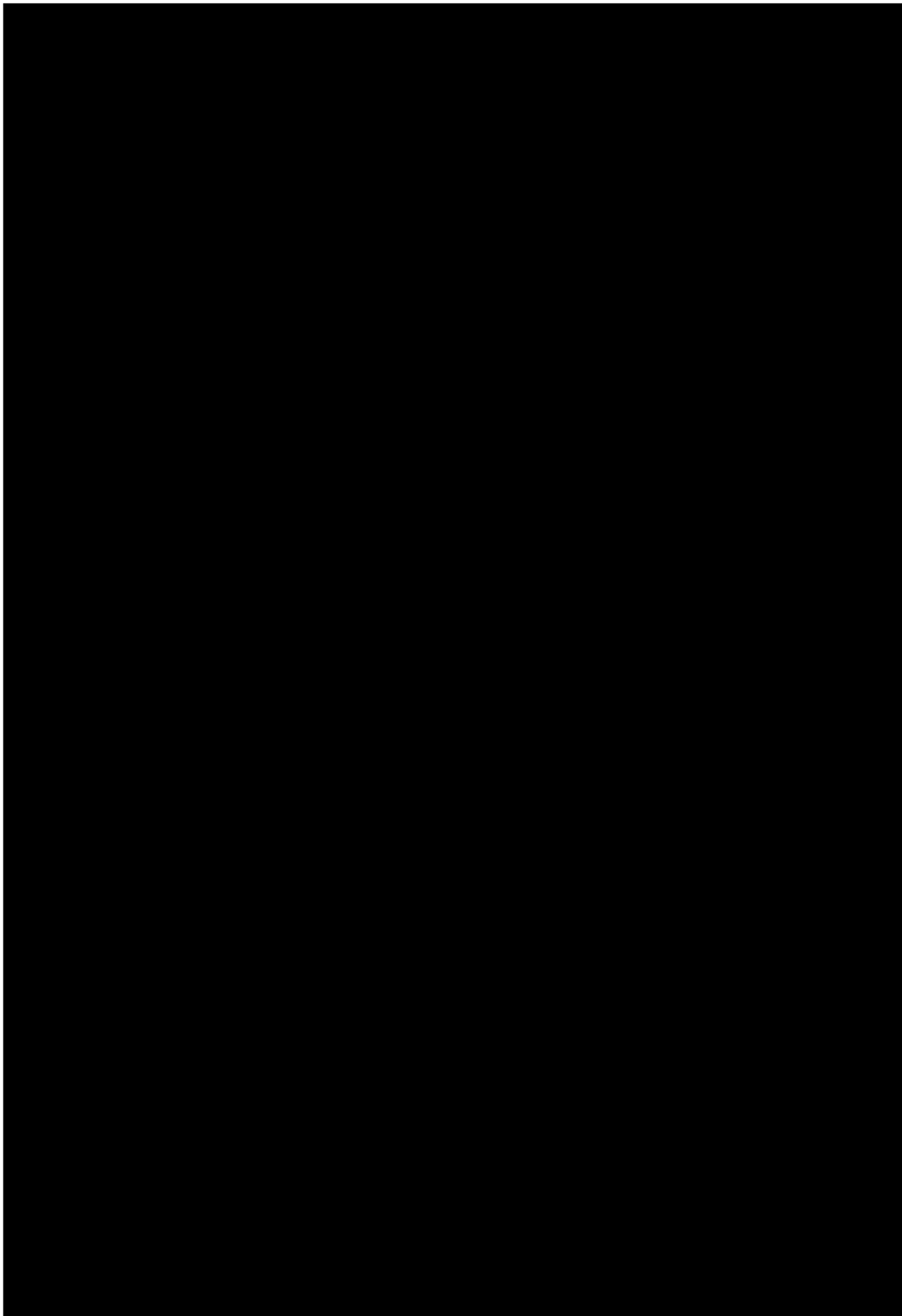
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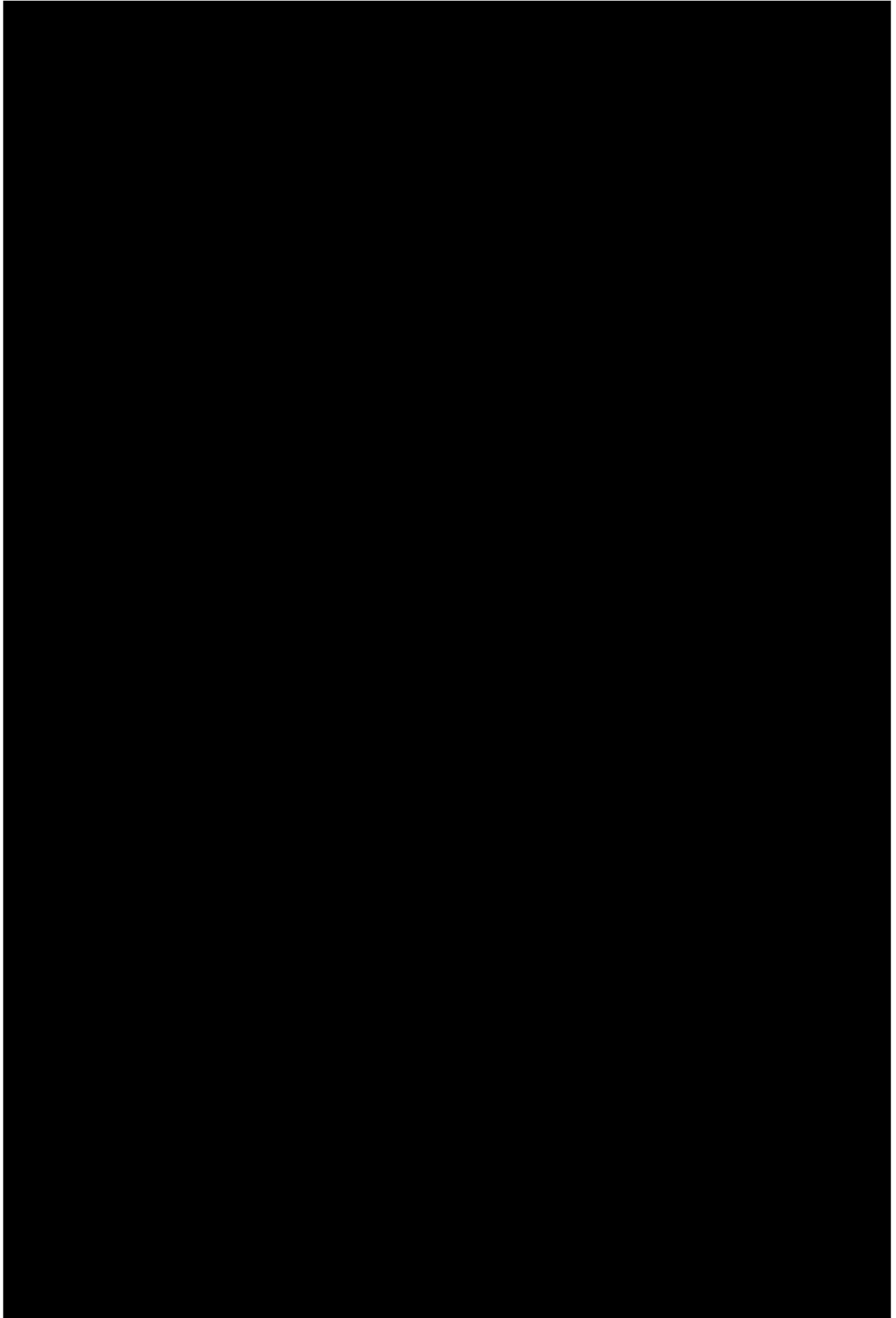


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PATENT
REEL: 063572 FRAME: 0725

SCHEDULE 1 - ASSIGNED PATENTS



SCHEDULE 1 - ASSIGNED PATENTS

COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Abandoned	2006-12-01	11/607431			High Fidelity Multimedia Wireless Headset
United States of America	Granted	2006-12-01	11/607475	2012-01-03	8090374	Wireless Multimedia Handset
United States of America	Abandoned	2006-12-01	11/607815			Wireless Media Server System And Method
United States of America	Granted	2007-01-11	11/653135	2011-11-22	8064835	Antenna Assignment System And Method
United States of America	Granted	2007-05-04	11/800357	2012-01-03	8090060	Demodulation Technique For Gfsk And Dpsk
United States of America	Granted	2007-05-04	11/800378	2012-01-03	8091012	System And Method For Decreasing Decoder Complexity
United States of America	Granted	2007-09-24	11/860529	2011-12-06	8073073	Optimized Clipping For Peak-To-Average Power Ratio Reduction
United States of America	Granted	2007-10-15	11/872700	2011-11-22	8063839	Tunable Antenna System
United States of America	Granted	2008-04-02	12/061491	2012-05-15	8180304	Efficient Power Amplifier
United States of America	Abandoned	2009-01-14	12/278753			Mesh With Nodes Having Multiple Antennas
United States of America	Granted	2008-10-20	12/288569	2012-02-07	8111790	Mitigating Interference In A Coded Communication System
United States of America	Granted	2007-05-04	12/299470	2013-05-21	8446998	Multiple Antenna Receiver System And Method
United States of America	Abandoned	2010-06-17	12/527429			Novel Transmit/Receive Balun Structure
United States of America	Abandoned	2009-10-01	12/572250			Symbol Mixing Across Multiple Parallel Channels
United States of America	Granted	2008-05-12	12/599682	2013-07-09	8483297	Multifunctional Signal Transform Engine
United States of America	Granted	2009-12-03	12/630814	2012-11-06	8305921	Channel Selection And Interference Suppression
United States of America	Granted	2009-12-15	12/653657	2013-03-26	8407551	Low Complexity Ldcp Decoding
United States of America	Granted	2010-02-12	12/705416	2011-10-04	8031101	Spur Cancellation
United States of America	Abandoned	2010-04-02	12/753807			Adaptive Channel Selection And Interference Suppression

Assignor initials: R

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Assignee initials: _____

SCHEDULE 1 - ASSIGNED PATENTS

COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Granted	2010-04-05	12/754578	2013-01-22	8358588	Interference-Cognitive Transmission
United States of America	Granted	2010-05-11	12/800309	2012-07-17	8223802	Primary User Detection
United States of America	Granted	2010-10-27	12/913200	2013-04-30	8432826	Channel Scanning And Channel Selection In A Wireless Communication Network
United States of America	Granted	2010-11-03	12/939023	2014-01-21	8634434	Message Routing In Wireless Mesh Networks
United States of America	Granted	2011-04-28	13/096885	2013-12-03	8599780	Access Point Range Extension
United States of America	Granted	2009-09-23	13/120419	2013-12-31	8619887	Adjustable Operational State Wireless Mimo
United States of America	Granted	2011-09-26	13/200639	2014-12-02	8902769	Method And Apparatus For Oversubscription Control In A Wi-Fi Home Network
United States of America	Abandoned	2011-09-01	13/223951			Spur Cancellation
United States of America	Abandoned	2011-10-12	13/317275			Method And Apparatus For Intelligent Beamforming In A Wireless Home Network
United States of America	Abandoned	2011-10-31	13/317956			Method And Apparatus For Managed Retransmission In A Wireless Home Network
United States of America	Abandoned	2011-12-12	13/374131			Channel Tracking In A Wireless Home Network
United States of America	Granted	2012-05-08	13/466328	2013-06-11	8462751	Managing Wireless Local Area Networks
United States of America	Granted	2012-04-19	13/506457	2014-07-01	8767657	Mixed-Mode Mimo Detector In A Local Area Network
United States of America	Granted	2011-01-12	13/513191	2014-06-17	8755455	Quality Of Service And Rate Selection
United States of America	Granted	2012-10-15	13/652376	2016-02-02	9252990	Mimo Sphere Decoder With Linear Startup In A Wireless Local Area Network
United States of America	Granted	2012-12-15	13/716138	2015-01-20	8937884	Interference-Cognitive Transmission
United States of America	Granted	2013-02-06	13/761147	2015-02-24	8964605	Method And Apparatus For Integrating A Transceiver And A Half-Duplexing Split Balun
United States of America	Granted	2013-05-12	13/892291	2016-01-05	9231671	Method And Apparatus For Link Optimization In A Wi-Fi Home Network

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Granted	2013-05-19	13/897431	2015-07-07	9078142	Method And Apparatus To Decouple Link Adaptation And Transmit Beamforming In Wifi Systems
United States of America	Granted	2013-05-31	13/907814	2015-08-11	9107090	Method And Apparatus For Correlating Wireless Local Area Network Communication Parameters With Subscriber Structure
United States of America	Granted	2013-12-06	14/099899	2014-06-10	8750157	Installation And Service Of A Wireless Home Network
United States of America	Granted	2014-02-05	14/173809	2015-06-30	9071299	Hdtv Compatible Precoding For Multi-User Mimo In A Wireless Home Network
United States of America	Granted	2014-02-23	14/187318	2016-05-03	9331883	Wireless Home Network Supporting Concurrent Links To Legacy Devices
United States of America	Granted	2014-02-25	14/190053	2015-06-30	9071972	Asynchronous Tiered Access Control To A Wireless Home Network
United States of America	Granted	2014-03-06	14/198957	2016-05-03	9332554	Wireless Home Network Supporting Discrete Concurrent Communication Links
United States of America	Granted	2014-03-28	14/229833	2015-07-21	9088962	Wap Supporting Complementary Subnets In A Wlan
United States of America	Granted	2014-07-03	14/324043	2017-04-25	9635649	Method And Apparatus For Channel Selection In A Wireless Local Area Network
United States of America	Granted	2014-07-22	14/338340	2016-08-16	9420530	Wap With Context Sensitive Energy Management
United States of America	Granted	2014-08-18	14/462505	2016-10-04	9461724	Matrix Processing Engine For Multi-Tone Mimo Systems
United States of America	Abandoned	2014-08-20	14/464698			Cross-Network Traffic Management Of Neighboring Wlans
United States of America	Granted	2014-10-31	14/530657	2015-07-07	9078153	Wireless Local Area Network With Spatial Diagnostics
United States of America	Granted	2014-11-12	14/540013	2017-07-25	9717014	Cross-Network Traffic Management Of Neighboring Wlans
United States of America	Granted	2015-02-02	14/612293	2016-10-25	9479240	Composite Beamforming To Coordinate Concurrent Wlan Links
United States of America	Granted	2015-02-17	14/624546	2017-10-10	9788263	Wifi Client With Hybrid Communication Capabilities For Wireless Local Area Network
United States of America	Granted	2015-04-30	14/701495	2016-11-08	9490882	Composite Sounding For Mimo Beamforming In A Wireless Home Network

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Granted	2015-05-30	14/726518	2017-10-31	9807635	Wireless Local Area Network With Spatial Diagnostics
United States of America	Granted	2015-06-16	14/740536	2018-06-05	9992795	Wap Supporting Complementary Subnets In A Wlan
United States of America	Granted	2015-06-16	14/741419	2017-07-04	9698878	Unsolicited Channel Sounding In A Wireless Local Area Network
United States of America	Abandoned	2015-07-22	14/806610			Intelligent Sounding In A Wireless Local Area Network
United States of America	Granted	2015-08-03	14/817195	2017-05-30	9667301	Transceiver For Heterogeneous Wlan
United States of America	Granted	2015-09-04	14/846719	2016-10-25	9479799	Compression Using An Iterative Data Derived Basis Set
United States of America	Granted	2015-10-12	14/881138	2016-06-28	9380604	Opportunistic Concurrency Between Wireless Local Area Networks
United States of America	Granted	2015-10-31	14/929331	2018-07-03	10015683	Device Optimization Across Wireless Local Area Networks
United States of America	Granted	2016-02-18	15/047610	2019-06-11	10321341	Channel Tracking In A Wireless Home Network
United States of America	Granted	2016-03-06	15/062191	2017-05-09	9647736	Compressed Training For Massive Mu-Mimo In A Wireless Local Area Network
United States of America	Granted	2016-03-07	15/063491	2017-06-20	9686002	Mu-Mimo Sniffer For A Wireless Local Area Network
United States of America	Granted	2016-07-11	15/207451	2019-02-26	10219169	Hybrid Mu-Mimo Spatial Mapping Using Both Explicit Sounding And Crosstalk Tracking In A Wireless Local Area Network
United States of America	Granted	2016-08-25	15/247905	2017-09-05	9756450	Automated Setup Of A Station On A Wireless Home Network
United States of America	Granted	2016-09-30	15/281736	2017-08-22	9742415	Apparatus For Linearizing A Differential Charge Pump
United States of America	Granted	2016-10-11	15/290091	2017-09-05	9755712	Composite Sounding For Mimo Beamforming In A Wireless Home Network
United States of America	Granted	2016-11-07	15/345500	2017-10-17	9793965	Frequency Orthogonalized Mimo Channel Sounding And Feedback In A Wireless Home Network
United States of America	Granted	2016-12-23	15/390445	2017-08-08	9730089	Remote Controlled Wifi Transceiver For Wireless Home Networks
United States of America	Granted	2017-01-18	15/409527	2019-07-02	10342052	Client Steering For A Wireless Local Area Network

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Granted	2017-02-19	15/436852	2019-07-30	10368360	Network Event Based Security And Home Automation
United States of America	Granted	2017-03-19	15/462903	2020-02-18	10567134	Wifi Antenna Selection With Beamforming
United States of America	Granted	2017-04-01	15/476972	2017-08-22	9743333	Arbitration Of Distributed Services For Wireless Home Networks
United States of America	Granted	2017-05-31	15/610610	2019-12-24	10516498	Wifi Multi-User Cpe And Ici Mitigation
United States of America	Granted	2017-06-27	15/635170	2020-02-25	10575198	Mobile Wireless Charging Station
United States of America	Granted	2017-06-27	15/635179	2021-01-26	10903894	Mobile Wireless Repeater
United States of America	Granted	2017-07-27	15/662268	2018-01-09	9866308	Composite Wifi And Acoustic Spatial Diagnostics For Smart Home Management
United States of America	Granted	2017-10-09	15/727668	2019-11-05	10469140	Wap Uplink Optimization By Selection Of Mimo Antennas Spatial States
United States of America	Granted	2017-11-05	15/803828	2020-01-21	10541733	Regulated Switch Banks For Driving Transmit Power Amplifiers Of A Mimo Wireless Transceiver
United States of America	Granted	2017-11-12	15/810129	2019-06-04	10310082	Acoustic Spatial Diagnostics For Smart Home Management
United States of America	Granted	2017-11-29	15/826632	2020-02-11	10560140	Mimo Wifi Transceiver With Rolling Gain Offset Pre-Distortion Calibration
United States of America	Granted	2017-12-19	15/847151	2019-07-02	10340891	Differential Elliptic Filter With A Single Op-Amp
United States of America	Granted	2018-04-29	15/965968	2020-01-07	10531490	Wap Supporting Complementary Subnets In A Wlan
United States of America	Published	2018-05-31	15/995089			Multi-Radio Wireless Transceiver Power Conservation
United States of America	Granted	2018-05-31	15/995104	2019-05-21	10298299	Transmutable Mimo Wireless Transceiver
United States of America	Granted	2018-09-19	16/136180	2020-06-02	10673506	Adaptive Spatial Diagnostics In A Wireless Network
United States of America	Granted	2019-02-11	16/272874	2020-12-15	10868589	Hybrid Mu-Mimo Spatial Mapping Using Both Explicit Sounding And Crosstalk Tracking In A Wireless Local Area Network
United States of America	Granted	2019-04-03	16/374589	2021-02-09	10917147	Transmutable Mimo Wireless Transceiver

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Granted	2019-05-03	16/403073	2022-07-19	11394441	Beamformer Solicited Sounding
United States of America	Granted	2019-06-03	16/429731	2020-05-19	10656268	Acoustic Spatial Diagnostics For Smart Home Management
United States of America	Granted	2019-06-10	16/436694	2021-07-20	11070994	Channel Tracking In A Wireless Home Network
United States of America	Granted	2019-06-18	16/444945	2021-06-15	11039487	Client Steering For A Wireless Local Area Network
United States of America	Granted	2019-07-29	16/525230	2022-10-18	11477797	Network Event Based Security And Home Automation
United States of America	Granted	2019-10-31	16/670761	2022-06-14	11362776	Early Link Detection Based Adaptive Selection Of Receive Parameters
United States of America	Granted	2019-10-31	16/671049	2022-02-22	11258500	Hybrid Sector Selection And Beamforming
United States of America	Granted	2019-10-31	16/671149	2021-12-14	11202243	Reconfigurable Multi-Radio Bridge
United States of America	Granted	2019-11-04	16/673569	2020-10-06	10797765	Wap Uplink Optimization By Selection Of MIMO Antennas Spatial States
United States of America	Granted	2019-11-06	16/676141	2021-04-20	10985874	Harq Framing And Retransmission
United States of America	Granted	2019-11-18	16/686367	2020-12-29	10880750	Adaptive Spatial Reuse
United States of America	Granted	2019-12-04	16/703665	2021-10-19	11153885	Medium-Based Transmission Parameter Adaptation
United States of America	Granted	2019-12-21	16/724222	2023-02-21	11586303	Software Framework And Development Platform For Wi-Fi Chipsets
United States of America	Granted	2019-12-27	16/728820	2021-06-08	11031979	Regulated Switch Banks For Driving Transmit Power Amplifiers Of A MIMO Wireless Transceiver
United States of America	Granted	2020-01-02	16/732677	2021-09-21	11128544	Remote Wireless Sniffer Management
United States of America	Granted	2020-01-03	16/734014	2022-07-12	11387959	Wifi Antenna Selection With Beamforming
United States of America	Granted	2020-01-22	16/749743	2021-05-11	11005536	Coordinated Beamforming With Active Synchronization
United States of America	Granted	2020-01-30	16/776802	2021-11-02	11165471	Over The Air Coupling For Digital Pre-Distortion Calibration

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Granted	2020-01-30	16/776840	2021-02-02	10911162	Direct Sampling For Digital Pre-Distortion Calibration
United States of America	Granted	2020-02-21	16/797888	2022-10-04	11464023	Termination Of Wireless Transmission Of A Data Frame
United States of America	Granted	2020-03-04	16/808587	2022-04-19	11310267	Secure Channel State Information With Adaptive Obfuscation
United States of America	Granted	2020-03-11	16/815599	2022-03-29	11290577	Wireless Data Transmission
United States of America	Granted	2020-03-23	16/827383	2022-03-01	11265888	Coexistence Management In Wireless Communications
United States of America	Published	2020-03-30	16/834946			Channel Training Adaptation
United States of America	Granted	2020-03-30	16/835052	2021-03-30	10965331	Broad Range Voltage-Controlled Oscillator
United States of America	Granted	2020-04-23	16/856351	2022-08-16	11418976	Wireless Adaptation Based On Multidimensional Input
United States of America	Granted	2020-04-23	16/857052	2022-03-22	11283505	Adaptive Spatial Diagnostics In A Wireless Network
United States of America	Allowed	2020-05-05	16/867343			Hybrid Distributed Retry Mechanism
United States of America	Granted	2020-05-22	16/882319	2023-02-14	11582772	Advanced Dual Band Virtual Concurrent For Wifi
United States of America	Granted	2020-05-26	16/883220	2021-08-24	11101922	Stream-Based Power Allocation In Multi-Stream Transmissions
United States of America	Granted	2020-07-01	16/918574	2022-02-22	11258470	Wireless Transceiver
United States of America	Granted	2020-10-21	16/949249	2022-10-11	11467613	Adaptable Low Dropout (Ldo) Voltage Regulator And Method Therefor
United States of America	Granted	2020-08-07	16/987572	2022-05-17	11336340	Beamforming Performance Optimization
United States of America	Granted	2020-09-10	17/017191	2022-03-08	11271780	Received Signal Equalization Of Wireless Transmissions
United States of America	Allowed	2020-09-16	17/022366			Feedback And Retransmission Format Of Harq Protocol
United States of America	Allowed	2020-09-21	17/027455			Multi-Link Wireless Communications Connections
United States of America	Granted	2020-09-29	17/037313	2023-01-10	11552828	Beamformer Solicited Sounding

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Published	2020-09-30	17/038013			Multi-Link Range Extension
United States of America	Granted	2020-10-01	17/060754	2022-03-29	11290387	Out Of Order Packet Scheduler
United States of America	Granted	2020-10-01	17/060895	2022-12-06	11522582	Wap Uplink Optimization By Selection Of Mimo Antennas Spatial States
United States of America	Granted	2020-11-16	17/099208	2022-05-17	11336349	Steering Matrix Derivation
United States of America	Granted	2020-11-23	17/102172	2021-11-30	11190945	Adaptive Spatial Reuse
United States of America	Granted	2020-11-25	17/104288	2022-11-01	11489946	Wireless Preamble Design
United States of America	Published	2020-12-02	17/109547			Abbreviated Header Communication
United States of America	Published	2020-12-16	17/124137			Wireless Data Transmission
United States of America	Granted	2020-12-18	17/126462	2022-09-06	11438037	Transmutable Mimo Wireless Transceiver
United States of America	Granted	2020-12-22	17/131465	2021-11-02	11165517	Direct Sampling For Digital Pre-Distortion Calibration
United States of America	Allowed	2020-12-23	17/132023			Mobile Wireless Repeater
United States of America	Published	2021-02-01	17/163663			Adaptive Thermal Management In Wireless Communications Systems
United States of America	Granted	2021-02-16	17/176547	2022-06-21	11368896	Flexible Distributed Antenna Array
United States of America	Published	2021-04-22	17/237383			Wireless Communication With Coded Data Frames
United States of America	Published	2021-04-22	17/237421			Wireless Communication Using Multiple Frequencies Segments
United States of America	Allowed	2021-04-22	17/237469			Spatial Reuse In Wireless Communication
United States of America	Published	2021-04-22	17/237510			Retransmission Of Wireless Data
United States of America	Published	2021-05-11	17/317137			Receive Path In-Phase And Quadrature Imbalance Correction Using Circuit Noise
United States of America	Allowed	2021-05-13	17/320068			Uplink Error Rate

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Allowed	2021-06-01	17/336053			Client Steering For A Wireless Local Area Network
United States of America	Published	2021-11-08	17/521635			Reconfigurable Multi-Radio Bridge
United States of America	Published	2021-11-11	17/524519			Adaptive UI Duration Selection
United States of America	Published	2022-01-11	17/572874			Adaptive Radio
United States of America	Application	2022-05-20	17/664273			Flexible Distributed Antenna Array
United States of America	Published	2022-02-18	17/674978			Hybrid Sector Selection And Beamforming
United States of America	Published	2022-02-18	17/675932			Coexistence Management In Wireless Communications
United States of America	Published	2022-02-18	17/675968			Wireless Transceiver
United States of America	Published	2022-03-17	17/697555			Out Of Order Packet Scheduler
United States of America	Published	2022-03-18	17/698492			Wireless Data Transmission
United States of America	Application	2022-03-31	17/710500			Equalization Of Digital Pre-Distortion Signal
United States of America	Published	2022-05-09	17/739672			Steering Matrix Derivation
United States of America	Published	2022-05-16	17/744979			Early Link Detection Based Adaptive Selection Of Receive Parameters
United States of America	Published	2022-06-16	17/807281			Beamformer Solicited Sounding
United States of America	Published	2022-08-30	17/823209			Termination Of Wireless Transmission Of A Data Frame
United States of America	Application	2022-03-25	17/995253			Wi-Fi Based Fixed Wireless Access Protocol
United States of America	Application	2022-11-08	18/053619			Wap Uplink Optimization By Selection Of MIMO Antennas Spatial States
United States of America	Application	2022-11-11	18/054578			Multi-Link Wireless Communications Connections
United States of America	Application	2022-12-07	18/062816			Beamformer Solicited Sounding

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Application	2022-12-12	18/064498			Advanced Dual Band Virtual Concurrent For Wifi
United States of America	Application	2023-01-17	18/155494			Software Framework And Development Platform For Wi-Fi Chipsets
United States of America	Application	2023-03-31	18/194404			Spatial Reuse In Wireless Communication
United States of America	Application	2023-04-06	18/296703			Client Steering For A Wireless Local Area Network
United States of America	Application	2023-04-06	18/296753			Uplink Error Rate
United States of America	Granted	2020-01-14	29/720508	2021-09-21	D931266	Wireless Router
United States of America	Expired	2005-12-01	60/741672			Multimedia Cell Platform
United States of America	Expired	2006-01-11	60/758466			Multimedia Cell Platform
United States of America	Expired	2006-05-04	60/797956			Multimedia Cell Platform
United States of America	Expired	2006-05-31	60/810036			Time Multiplexing Antenna Diversity System
United States of America	Expired	2006-10-17	60/852911			Integrated Multiple Tunable Antenna System
United States of America	Expired	2006-11-08	60/857992			Par Reduction
United States of America	Expired	2006-11-17	60/859614			Battery Powered Self-Routing Element Outside Plant
United States of America	Expired	2007-02-16	60/890452			Novel Transmit/Receive Balun Structure
United States of America	Expired	2007-05-10	60/917276			Multifunctional Signal Transform Engine
United States of America	Expired	2007-05-24	60/931817			Multi-Protocol System
United States of America	Expired	2007-10-19	60/981462			Soft Decoding To Mitigate The Impact Of Bluetooth Interference On Convolutionally-Encoded Signals
United States of America	Expired	2008-09-23	61/099492			Complexity Reduction For Transmit Beamforming In Ofdm

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Expired	2008-09-23	61/099496			Asymmetrical Wlan Transceiver With Generalized 8x8 Architecture Supporting 8x8 Or Dual 4x4
United States of America	Expired	2008-10-01	61/101961			Symbol Mixing Across Multiple Spatial Streams In Mimo Systems
United States of America	Expired	2008-12-15	61/122648			Low Complexity Encoder For Ieee 802.11n Ldpc Codes
United States of America	Expired	2009-02-12	61/152243			Spur Cancellation
United States of America	Expired	2009-04-03	61/166690			Adaptive Channel Selection And Interference Suppression
United States of America	Expired	2009-05-11	61/215996			Radar Detection
United States of America	Expired	2009-10-27	61/255363			Channel Scanning
United States of America	Expired	2009-11-06	61/259002			Mesh Routing In Mimo Networks
United States of America	Expired	2010-01-12	61/294441			Quality Of Service And Rate Selection
United States of America	Expired	2010-04-28	61/329053			Ap Range Extension
United States of America	Expired	2010-09-24	61/386456			Bandwidth Allocation And Resource Management In Multiple Access Wireless Network
United States of America	Expired	2010-10-12	61/392394			Method And Apparatus For Intelligent Beamforming In A Wireless Home Network
United States of America	Expired	2010-10-20	61/408454			Method And Apparatus For Managed Retransmission In A Wireless Home Network
United States of America	Expired	2010-12-10	61/421830			Channel Selection Algorithms
United States of America	Expired	2010-12-13	61/422610			Radio Receiver Architecture For Dfs
United States of America	Expired	2011-04-19	61/477008			Efficient Channel Ordering For Near Optimum Mimo Detection
United States of America	Expired	2011-06-08	61/494823			Method And Apparatus For Tone Discriminated Near-Optimum Mimo Decoding

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Expired	2011-10-13	61/546866			Efficient Maximum Likelihood Mimo Decoders
United States of America	Expired	2012-02-21	61/601533			Managing Wireless Home Networks
United States of America	Expired	2012-05-31	61/654009			Service Client Location Determination
United States of America	Expired	2013-02-05	61/761213			Method And Apparatus For Multi-User Mimo
United States of America	Expired	2013-02-25	61/769161			Method And Apparatus For Generating A Passphrase On A Wireless Local Area Network (Wlan)
United States of America	Expired	2013-02-27	61/770291			Method And Apparatus For Packet Retransmission Management In A Wireless Home Network
United States of America	Expired	2013-03-05	61/772846			Multi-User Mimo With Legacy Clients
United States of America	Expired	2013-03-06	61/773336			Method And Apparatus For Establishing Orthogonal Multi-Path Transmissions On A Wireless Network
United States of America	Expired	2013-03-15	61/801148			Open Loop Link Performance Optimization In 802.11
United States of America	Expired	2013-03-28	61/806332			Adaptive Controller Design For Multiple Radio Frequency Transceivers
United States of America	Expired	2013-04-08	61/809825			Method And Apparatus To Decouple Link Adaptation And Transmit Beamforming In Wifi Systems
United States of America	Expired	2013-07-03	61/842534			Method And Apparatus For Wireless Local Area Network (Wlan) To Maximize Utilization Of Radar Channel Without Service Interruption
United States of America	Expired	2013-07-11	61/845320			Method For Determining Optimal Position Of Wi-Fi Devices For Video Distribution
United States of America	Expired	2013-07-15	61/846598			Method For Installation And Service Of Wireless Home Network
United States of America	Expired	2013-07-22	61/857197			Power Efficient Ap Operation For Video Application
United States of America	Expired	2013-08-19	61/867564			Efficient Marrix Processsing Engine For Multi-Tone Mimo

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Expired	2013-11-12	61/903146			Method And Apparatus For Cross-Network Traffic Management Of Neighboring Wlans For Quality Of Service (Qos)
United States of America	Expired	2014-01-31	61/934147			Inter-Cell Interference Management Via Reconfigurable Beamforming In The Rf Domain
United States of America	Expired	2014-02-15	61/940424			Method And Apparatus For Smart Wireless Repeater Design
United States of America	Expired	2014-04-30	61/986365			Composite Sounding For Systems With High Number Of Transmit Antennas
United States of America	Expired	2014-04-29	61/996096			Composite Beamforming To Coordinate Concurrent Wlan Links
United States of America	Expired	2014-05-20	62/000940			Composite Sounding For Single-Antenna Client Stas
United States of America	Expired	2014-07-23	62/028032			Method And Apparatus For Overhead-Aware Feedback Collection And Storage
United States of America	Expired	2014-07-25	62/028906			Implicit An Explicit Beamforming Feedback Interplay For Mu-Mimo Systems
United States of America	Expired	2014-08-03	62/032615			Mu-Mimo Network With Wired And Air Interfaces
United States of America	Expired	2014-09-05	62/046704			Nearly Orthogonal And Condensed (Noc) Bases For Processing Array Of Numerical Data
United States of America	Expired	2014-10-12	62/062915			Method And Apparatus For Network Self-Healing Based On Interference State
United States of America	Expired	2014-10-31	62/073604			Method And Apparatus For Adaptive Cloud Optimization Of Transmission Link In Wireless Local Area Networks
United States of America	Expired	2015-02-07	62/113418			Mu-Mimo Wifi Transmission Over Wired And Wireless Media Using Multiple Carrier Frequencies
United States of America	Expired	2015-03-05	62/128596			Mu-Mimo Sniffer Design
United States of America	Expired	2015-03-05	62/128651			Compressed Training Signal For Mu-Mimo
United States of America	Expired	2015-03-05	62/128668			11ax Preamble Design: Channel Training

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Expired	2015-07-09	62/190648			Mu Precoding For Changing Channels
United States of America	Expired	2015-08-26	62/210383			Cloud-Assisted Wi-Fi Device Self Install
United States of America	Expired	2015-10-17	62/243054			Distributed Control Agent For Managing A Wifi Network
United States of America	Expired	2015-12-11	62/266504			Graphical User Interface For Wlans Manager
United States of America	Expired	2016-01-18	62/279883			Cloud Client Steering
United States of America	Expired	2016-03-08	62/305132			Network Event Based Security And Home Automation
United States of America	Expired	2016-04-01	62/316664			Efficient Channel Sounding And Feedback Using Frequency Orthogonalization
United States of America	Expired	2017-02-16	62/460066			Antenna Selection With Beamforming
United States of America	Expired	2018-03-09	62/641215			Adaptive Csi Pre-Processing For Efficient Spatial Diagnostics Using Wifi
United States of America	Expired	2018-05-04	62/667405			Beamformer Solicited Sounding
United States of America	Expired	2018-11-04	62/755555			Dynamic Directionality
United States of America	Expired	2018-11-05	62/756008			Multi-Radio Bridge With Adaptive Topology Control
United States of America	Expired	2018-11-05	62/756049			Hybrid Sector Selection And Beamforming
United States of America	Expired	2018-11-11	62/758677			Harq Framing And Dual Error Detection
United States of America	Expired	2018-12-10	62/777743			Adaptive Spatial Reuse
United States of America	Expired	2019-01-06	62/788922			Software Framework And Development Platform For Wi-Fi Chipsets
United States of America	Expired	2019-03-02	62/813010			Coordinated Beamforming With Active Synchronization
United States of America	Expired	2019-03-12	62/817385			Cloud Sniffer Control Platform
United States of America	Expired	2019-03-13	62/817993			Harq Framing And Dual Error Detection With Retransmission

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Expired	2019-03-21	62/821945			Predicting State Of Wireless Network For State Migration
United States of America	Expired	2019-04-01	62/827735			Co-Existence Management In Wireless Communications
United States of America	Expired	2019-04-22	62/837113			Multi-Frequency Range Voltage Controlled Oscillator System And Method
United States of America	Expired	2019-04-29	62/840371			Secure Csi With Adaptive Preamble Obfuscation
United States of America	Expired	2019-05-27	62/853160			Early Link Identification-Based Receiver Setup
United States of America	Expired	2019-06-18	62/863191			Rate Adaptation
United States of America	Expired	2019-07-15	62/874406			Harq Framing, Codeword Nack, And Dual Error Detection With Retransmission
United States of America	Expired	2019-07-23	62/877757			Adaptive Triband
United States of America	Expired	2019-08-23	62/890970			Advanced Dual Band Virtual Concurrent For Wifi Networks
United States of America	Expired	2019-08-28	62/892852			Methods and Systems for Per-tone Sounding with SNR Using Capture Mode
United States of America	Expired	2019-10-23	62/924934			Multi-Link Wireless Communications Connections Methods And Systems
United States of America	Expired	2019-11-08	62/932937			Harq: Feedback And Retransmission
United States of America	Expired	2019-11-08	62/932998			Multi-Access Point Beamformer Solicited Sounding
United States of America	Expired	2019-11-08	62/933088			Multi-Link Range Extension
United States of America	Expired	2019-12-16	62/948575			Wi-Fi Preamble Design
United States of America	Expired	2020-01-11	62/959956			Qam Constellation Coding
United States of America	Expired	2020-02-03	62/969229			Methods And Systems To Optimize Dbvc Performance For Throughput And Stability
United States of America	Expired	2020-02-14	62/976610			Adaptive Thermal Mitigation For Wireless Systems
United States of America	Expired	2020-04-16	63/011153			Frequency Duplication In 802.11 Transmissions

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COUNTRY	STATUS	FILING DATE	APPLN NO.	GRANT DATE	PATENT NO.	TITLE
United States of America	Expired	2020-05-01	63/019220			Wireless Data Transmission
United States of America	Expired	2020-07-01	63/047002			Received Signal Equalization Of Wireless Transmissions
United States of America	Abandoned	2020-07-09	63/049691			Adaptive Triband: Controller Logic For Configuration Of Multiband Wlan Device
United States of America	Expired	2020-07-10	63/050469			Adaptive Triband: Controller Logic For Configuration Of Multiband Wlan Device
United States of America	Expired	2020-07-15	63/052309			Adaptable Voltage Controlled Oscillator Regulator
United States of America	Expired	2020-08-10	63/063786			Access Point Directed Station Capability Configuration
United States of America	Expired	2020-09-25	63/083576			Wide Local Area Network (Wlan) Emergency Mode
United States of America	Expired	2021-01-12	63/136408			Wi-Fi Adaptive Triband Mesh Management
United States of America	Expired	2021-03-26	63/166814			Wi-Fi Based Fixed Wireless Access Protocol
United States of America	Application	2022-09-20	63/376323			Adaptive Multi-Input Multi-Output With Multi-Link Operation
United States of America	Application	2022-09-20	63/376324			Station Adaptive Ranging
United States of America	Application	2022-09-20	63/376325			Latency-Based Contention
United States of America	Application	2022-10-27	63/381274			Voltage Regulator

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