

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6736137

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LINEAR TECHNOLOGY HOLDING LLC	10/31/2019
RECEIVING PARTY DATA		
Name:	ANALOG DEVICES INTERNATIONAL UNLIMITED COMPANY	
Street Address:	BAY F1 RAHEEN INDUSTRIAL ESTATE	
City:	LIMERICK, CO. LIMERICK	
State/Country:	IRELAND	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16111125
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Email:	request@slwip.com	
Correspondent Name:	SCHWEGMAN LUNDBERG & WOESSNER, P.A.	
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ATTORNEY DOCKET NUMBER:	5867.080US1	
NAME OF SUBMITTER:	DIANA JOHNSON	
SIGNATURE:	/Diana Johnson/	
DATE SIGNED:	05/28/2021	
Total Attachments: 32		
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CONFIRMATORY ASSIGNMENT

WHEREAS, Linear Technology Holding LLC, an entity organized and existing under and by virtue of the laws of Delaware, and having an office and place of business at 1630 McCarthy Boulevard, Milpitas, California (hereinafter "Assignor"), is the owner of assets identified in Appendix A (hereinafter collectively "Patent Properties"), including all inventions and other subject matter described in the Patent Properties;

AND WHEREAS, Analog Devices International Unlimited Company, an entity organized and existing under and by virtue of the laws of Ireland, and having an office and place of business at Bay F1 Raheen Industrial Estate, Limerick, Ireland (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Patent Properties, including all inventions and other subject matter described therein, and any patent to be obtained in relation therefor;

AND WHEREAS, the Assignor and the Assignee have agreed by virtue of the DEED OF TRANSFER and ASSIGNMENT OF RIGHTS, each dated November 5, 2018 (the "effective date") that Assignor transferred Assignor's entire right, title, and interest in all intellectual property, including said Patent Properties, as of the effective date of such ASSIGNMENT OF RIGHTS;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, the Assignor has assigned, conveyed, and transferred said intellectual property to Assignee and hereby does:

ASSIGN, CONVEY AND TRANSFER to the Assignee the Assignor's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the whole of said intellectual property including the right to apply for and obtain patents or other forms of protection with respect to said intellectual property;

said Patent Properties, including all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of said Patent Properties;

all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and

jurisdictions, based in whole or in part on any of said Patent Properties (including any application for a utility model or an innovation patent application);

the right to claim priority to said Patent Properties in relation to subject matter based in whole or in part on said Patent Properties and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and the right to all causes of action, remedies, and other enforcement rights related to said Patent Properties, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to said Patent Properties and any of the foregoing, including the right to obtain and collect damages and/or royalties due for past, present, or future infringement;

AUTHORIZES AND REQUESTS the issuing authority to issue any and all United States and foreign patents granted on said Patent Properties to the Assignee;

AUTHORIZES AND REQUESTS that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to said Patent Properties or any of the foregoing, after execution of this Assignment;

WARRANTS AND COVENANTS that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Assignor, and that the full right to convey the same as herein expressed is possessed by the Assignor;

COVENANTS, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Assignor shall (1) secure cooperation from all present and former employees and/or inventors contributing or having contributed to the Patent Properties; (2) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Patent Properties; (3) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Patent Properties; (4) communicate to the Assignee all facts known to the Assignor relating to the Patent Properties and the history thereof; (5) cooperate with the Assignee in any interference, reexamination, review proceeding,

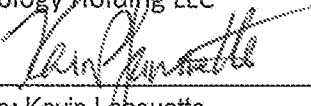
reissue, opposition, dispute, or litigation involving any of the applications or patents for the Patent Properties; and (6) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to said Patent Properties in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Patent Properties; and

COVENANTS, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions.

THIS AGREEMENT IS TO BE BINDING on the assigns, representatives, and successors of the Assignor, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED to by Assignor as of the Date of the Signature Below:

Assignor: Linear Technology Holding LLC

Signature: 

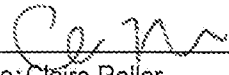
Printed Name: Kevin Lanouette

Title: Secretary

Date: October 31 2019

ACCEPTED by Assignee as of the Date of the Signature Below:

Assignee: Analog Devices International Unlimited Company

Signature: 

Printed Name: Claire Rollo

Title: Assistant IP Counsel

Date: October 31, 2019

On this 31 day of October, 2019,
before me, the undersigned notary public, personally appeared
Kevin Lanouette and Claire Rollo
proved to me through satisfactory evidence of identification, which were license,
to be the persons whose name is signed on the preceding or attached document who swore
or affirmed to me that the contents of the document are truthful and accurate to the best of
his/her knowledge and belief.
 Patricia A. Hofstetter
PATRICIA A. HOFSTETTER, Notary Public
My Commission Expires May 29, 2020

PATENT

REEL: 056422 FRAME: 0830

Appendix A -- Asset List

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00703CN01	China	201810635759.5	SOFT-CHARGING OF SWITCHED CAPACITORS IN POWER CONVERTER CIRCUITS	Non Provisional	2017-06-12	109039048	
P00711CN01	China		Stress-Impaired Signal Correction Circuit.	Non Provisional	2017-08-08		
P00714CN01	China		Coordinated Event Sequencing.	Non Provisional	2017-10-10		
P00715CN	China	201810863744.4	Open Circuit Based Rx Power Limiter for Wireless Power Transfer.	Non Provisional	2018-08-01	109391134	
P00716CN01	China		New Soft Start Scheme for Resonant Converter and Resonant Switched Capacitor Converter.	Non Provisional	2017-08-14		
P00718CN	China	201811114195.7	LED Dimming	Non Provisional	2018-09-25	109548228	
P00719CN	China	201811108885.1	LED Dimming	Non Provisional	2018-09-21	CN109548226A	
P00720CN	China	201811153751.1	Regular Very Short Current Pulses in LED Drivers	Non Provisional	2018-09-30	109640432	
P00724CN01	China	201811054778.5	PASS THROUGH REGULATION OF BUCK-BOOST REGULATOR	Non Provisional	2018-09-11	109494980	
P00725CN01	China	201810982914.0	Power Over Ethernet System and Method Performing the Same	Non Provisional	2018-08-27	CN 109428730 A	
P00726CN01	China	201811418754.3	PHASE LOCKED LOOP CALIBRATION FOR SYNCHRONIZING NON-CONSTANT FREQUENCY SWITCHING REGULATORS	Non Provisional	2018-11-26	109842411	
P00727CN01	China	201811253868.7	High-Speed On-Chip Precision Buffer With Switched-Load Rejection	Non Provisional	2018-10-25	109710561	
P00728CN01	China	201811246678.2	Synchronized Hiccup Overcurrent Protection of Multi-phase Switching	Non Provisional	2018-10-24	109713644	
P00729CN01	China	201811427677.8	Circuits and Methods For Minimizing the Body-Diode Conduction in Boost Converters.	Non Provisional	2018-11-27	109936288	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00731CN01	China	201920004023.8	Broadband Compact Wilkinson Combiner With Coupled Inductors.	Utility Model	2019-01-03		
P00732CN01	China	201811337618.1	CHOPPER AMPLIFIERS WITH HIGH PASS FILTER FOR SUPPRESSING CHOPPING RIPPLE	Non Provisional	2018-11-09	CN109818583A	
P00735CN01	China	201910204589.X	Transconductance Amplifier with Nonlinear Transconductance and Low Quiescent Current	Non Provisional	2019-03-18	CN201910204589.X	
P00736CN01	China	201910087235.1	Robust Transceiver with High Common Mode Working Voltage Using Low Voltage Technology, with the Benefit of Full Isolation	Non Provisional	2019-01-29	110109855	
P00738CN01	China	201910310344.5	Light-Load Efficiency Improvement of Hybrid Switched Capacitor Converter	Non Provisional	2019-04-17		
P00739CN01	China	201910172432.3	Zero-voltage Switching Hybrid Switched-Capacitor Converter	Non Provisional	2019-03-07	110266184	
P00740CN01	China	201910135917.5	AVERAGED REFERENCE WITH FAULT MONITORING	Non Provisional	2019-02-14	110174882	
P00742CN01	China	201910768672.X	Isolation Architecture	Non Provisional	2019-08-20		
P00743CN01	China	201910478455.7	Multi-Chip Timing Alignment To A Common Reference Signal	Non Provisional	2019-06-03		
P00744CN01	China	201910194287.9	Termination for Wire Pair Carrying DC and Differential Signals Using Isolation Transformer with Split Primary and Secondary Windings	Non Provisional	2019-03-14	CN110277920A	
P00745CN01	China	201980000486.X	Stacked Circuit Package with Molded Base Having Laser Drilled Openings for Upper Package	Non Provisional	2019-04-12		
P00745CN02	China		Stacked Circuit Package with Molded Base Having Laser Drilled Openings for Upper Package	Utility Model	2019-03-12		

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00746CN01	China	201910539196.4	Bi-Direction DC Motor Control Method with Dual Voltage Mode Buck Converters	Non Provisional	2019-06-20		
P00747CN01	China	201910301174.4	Negative Charge Pump Doubling Output Voltage Range for Step-Up LED Driver	Non Provisional	2019-04-15		
P00748CN01	China	201910379540.8	High Conversion-Ratio Hybrid Switched Power Converter	Non Provisional	2019-05-08		
P00753CN01	China	201910853324.2	High Dynamic Range Analog-To-Digital Converter	Non Provisional	2019-09-10		
P00756CN01	China	201910939897.7	REGULATOR LIGHT LOAD CONTROL TECHNIQUES	Non Provisional	2019-09-30		
P00759CN01	China	201910911229.3	BIDIRECTIONAL SIGNAL SEPARATION	Non Provisional	2019-09-25		
P00761CN01	China		A LOGARITHMIC SCALE ANALOG TO DIGITAL CONVERTER FOR WIDE DYNAMIC RANGE AVALANCHE PHOTODIODE CURRENT COMPANDING	Non Provisional			
P00771CN01	China		REGULATOR CIRCUIT PACKAGE TECHNIQUES	Non Provisional			
P00772CN01	China	201910955797.3	SEGMENTED WINDING TECHNIQUES FOR A COUPLED INDUCTOR CIRCUIT	Non Provisional	2019-10-09		
P00726EP01	European Patent	18208549.8	PHASE LOCKED LOOP CALIBRATION FOR SYNCHRONIZING NON-CONSTANT FREQUENCY SWITCHING REGULATORS	Non Provisional	2018-11-27	3490150	
P00727EP01	European Patent	18202179.0	High-Speed On-Chip Precision Buffer With Switched-Load Rejection	Non Provisional	2018-10-24	3477854	
P00731EP01	European Patent		Broadband Compact Wilkinson Combiner With Coupled Inductors.	Non Provisional			
P00735EP01	European Patent	19163017.7	Low quiescent current transconductance amplifier with boosted drive strength	Non Provisional	2019-03-15	3540973	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00737EP01	European Patent	19154067.3	Direct Injection For Load Current Feedforward For Fast Transient Response	Non Provisional	2019-01-29	3525332	
P00743EP01	European Patent		Multi-Chip Timing Alignment To A Common Reference Signal	Non Provisional			
P00744EP01	European Patent	19162742.1	Termination for Wire Pair Carrying DC and Differential Signals Using Isolation Transformer with Split Primary and Secondary Windings	Non Provisional	2019-03-14	3540973	
P00746EP01	European Patent	19182865.6	Bi-Direction DC Motor Control Method with Dual Voltage Mode Buck Converters	Non Provisional	2019-06-27		
P00747EP01	European Patent	19169745.7	Negative Charge Pump Doubling Output Voltage Range for Step-Up LED Driver	Non Provisional	2019-04-17		
P00756EP01	European Patent	19202414.9	REGULATOR LIGHT LOAD CONTROL TECHNIQUES	Non Provisional	2019-10-10		
P00772EP01	European Patent	19202178.0	SEGMENTED WINDING TECHNIQUES FOR A COUPLED INDUCTOR CIRCUIT	Non Provisional	2019-10-09		
P00703DE01	Germany (Federal Republic of)	10 2018 004 585.5	Soft Start Methods of Switched Capacitor Converters.	Non Provisional	2018-06-08		
P00703DE02	Germany (Federal Republic of)	10 2018 004 659.2	SOFT-CHARGING OF SWITCHED CAPACITORS IN POWER CONVERTER CIRCUITS	Non Provisional	2018-06-12	102018004659	
P00711DE01	Germany (Federal Republic of)		Stress-Impaired Signal Correction Circuit.	Non Provisional	2017-08-08		
P00714DE01	Germany (Federal Republic of)		Coordinated Event Sequencing.	Non Provisional	2017-10-10		
P00715DE	Germany (Federal Republic of)	102018006143.5	Open Circuit Based Rx Power Limiter for Wireless Power Transfer.	Non Provisional	2018-08-03	102018006143	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00718DE	Germany (Federal Republic of)	10 2018 007 410.3	A Method For Facilitating Extremely Low Dimming Ratios for LED's with Extended Inductor Conduction.	Non Provisional	2018-09-19	1020180007410	
P00719DE	Germany (Federal Republic of)	10 2018 007 411.1	A Method For Facilitating Low Dimming Ratios for LED's with Multiple Inductor Conduction Intervals Per Cycle.	Non Provisional	2018-09-19	1020180007411	
P00720DE	Germany (Federal Republic of)	10 2018 007 729.3	Regular Very Short Current Pulses in LED Drivers	Non Provisional	2018-10-01	1020180007729	
P00724DE01	Germany (Federal Republic of)	1020180007097.3	PASS THROUGH REGULATOR OF BUCK-BOOST REGULATOR	Non Provisional	2018-09-07	1020180007097	
P00725DE01	Germany (Federal Republic of)	1020180006742.5	Power Over Ethernet Using Shielded Single Twisted Wire Pair	Non Provisional	2018-08-24	10 2018 006 742	
P00729DE01	Germany (Federal Republic of)	10 2018 009 961.0	Circuits and Methods For Minimizing the Body-Diode Conduction in Boost Converters.	Non Provisional	2018-12-18	1020180009961	
P00731DE01	Germany (Federal Republic of)	20 2019 000 042.9	Wilkinson Combiner With Coupled Inductors.	Utility Model	2019-01-04	2020190000042	20 2019 000 042.9
P00738DE01	Germany (Federal Republic of)	1020190002880.5	Light-Load Efficiency Improvement of Hybrid Switched Capacitor Converter	Non Provisional	2019-04-18		
P00740DE01	Germany (Federal Republic of)	1020190001232.1	AVERAGED REFERENCE WITH FAULT MONITORING	Non Provisional	2019-02-20		
P00742DE01	Germany (Federal Republic of)	1020190005852.6	Isolation Architecture	Non Provisional	2019-08-20		
P00748DE01	Germany (Federal Republic of)	10 2019 003 177.6	High Conversion-Ratio Hybrid Switched Power Converter	Non Provisional	2019-05-06		
P00753DE01	Germany (Federal Republic of)	1020190005700.2	High Dynamic Range Analog-To-Digital Converter	Non Provisional	2019-09-12		

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00759DE01	Germany (Federal Republic of)		BIDIRECTIONAL SIGNAL SEPARATION	Non Provisional	2019-09-24		
P00771DE01	Germany (Federal Republic of)		REGULATOR CIRCUIT PACKAGE TECHNIQUES	Non Provisional			
P00715JP	Japan	2018-146711	Open Circuit Based Rx Power Limiter for Wireless Power Transfer.	Non Provisional	2018-08-03	2019-033662	
P00718JP	Japan	2018-177203	LED Dimming	Non Provisional	2018-09-21	2019-061955	
P00719JP	Japan	2018-177205	LED Dimming	Non Provisional	2018-09-21	2019-61956	
P00720JP01	Japan	2018-189073	Regular Very Short Current Pulses in LED Drivers	Non Provisional	2018-10-04	2019-71273	
P00724JP01	Japan	2018-168679	PASS THROUGH REGULATION OF BUCK-BOOST REGULATOR	Non Provisional	2018-09-10	2019-050723	
P00725JP01	Japan	2018-157043	Power Over Ethernet(R) Using Shielded Single Twisted Wire Pair	Non Provisional	2018-08-24	2019-41385	
P00729JP01	Japan	2018-236348	MINIMIZING BODY DIODE CONDUCTION IN SYNCHRONOUS CONVERTERS	Non Provisional	2018-12-18	2019110748	
P00736JP01	Japan	2019-012971	Robust Transceiver with High Common Mode Working Voltage Using Low Voltage Technology, with the Benefit of Full Isolation	Non Provisional	2019-01-29		
P00737JP01	Japan	201912970	Direct Injection For Load Current Feedforward For Fast Transient Response	Non Provisional	2019-01-29		
P00740JP01	Japan	2019-029128	AVERAGED REFERENCE WITH FAULT MONITORING	Non Provisional	2019-02-21		
P00743JP01	Japan	2019-103491	Multi-Chip Timing Alignment To A Common Reference Signal	Non Provisional	2019-06-03		
P00746JP01	Japan	2019-115760	Bi-Direction DC Motor Control Method with Dual Voltage Mode Buck Converters	Non Provisional	2019-06-21		

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00747JP01	Japan	2019-77661	Negative Charge Pump Doubling Output Voltage Range for Step-Up LED Driver	Non Provisional	2019-04-16		
P00761JP01	Japan		A LOGARITHMIC SCALE ANALOG TO DIGITAL CONVERTER FOR WIDE DYNAMIC RANGE AVALANCHE PHOTODIODE CURRENT COMPANDING	Non Provisional			
P00718KR	Korea, Republic of (KR)	2018-0112791	A Method For Facilitating Extremely Low Dimming Ratios for LED's with Extended Inductor Conduction.	Non Provisional	2018-09-20		
P00719KR	Korea, Republic of (KR)	2018-0112744	A Method For Facilitating Low Dimming Ratios for LED's with Multiple Inductor Conduction Intervals Per Cycle.	Non Provisional	2018-09-20		
P00726KR01	Korea, Republic of (KR)	10-2018-0147623	PHASE LOCKED LOOP CALIBRATION FOR SYNCHRONIZING NON-CONSTANT FREQUENCY SWITCHING REGULATORS	Non Provisional	2018-11-26		
P00729KR01	Korea, Republic of (KR)	10-2018-0164021	MINIMIZING BODY DIODE CONDUCTION IN SYNCHRONOUS CONVERTERS	Non Provisional	2018-12-18		
P00737KR01	Korea, Republic of (KR)		Direct Injection For Load Current Feedforward For Fast Transient Response	Non Provisional			
P00746KR01	Korea, Republic of (KR)	1020190076711	Bi-Direction DC Motor Control Method with Dual Voltage Mode Buck Converters	Non Provisional	2019-06-27		
P00772KR01	Korea, Republic of (KR)		SEGMENTED WINDING TECHNIQUES FOR A COUPLED INDUCTOR CIRCUIT	Non Provisional			
P00702PCT01	Patent Cooperation Treaty	PCT/US2018/031103	Predictive Ripple-Cancelling Signal Into Error Amplifier of Switch Mode Power Supply.	Non Provisional	2018-05-04	WO/2018/208597	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00711PCT	Patent Cooperation Treaty	PCT/US2017/045974	Stress-Impaired Signal Correction Circuit.	Non Provisional	2017-08-08	WO 2019/032099	
P00714PCT01	Patent Cooperation Treaty	PCT/US2017/055996	Coordinated Event Sequencing. New Soft Start Scheme for Resonant Converter and Resonant Switched Capacitor Converter.	Non Provisional	2017-10-10	WO 2018/212783	
P00716PCT	Patent Cooperation Treaty	PCT/US2017/046797		Non Provisional	2017-08-14	WO 2019/032125	
P00734PCT01	Patent Cooperation Treaty	PCT/US2019/028946	Self-Biasing Ideal Diode Circuit	Non Provisional	2019-04-24		
P00741PCT01	Patent Cooperation Treaty	PCT/US2019/027253	Detecting Value of Output Capacitor in Switching Regulator	Non Provisional	2019-04-12		
P00745PCT01	Patent Cooperation Treaty	PCT/US2019/021908	Stacked Circuit Package with Molded Base Having Laser Drilled Openings for Upper Package	Non Provisional	2019-03-12	WO/2019/190741	
P00749PCT01	Patent Cooperation Treaty	PCT/US2019/029651	POWER OVER DATA LINES SYSTEM USING PAIR OF DIFFERENTIAL MODE CHOKES FOR COUPLING DC VOLTAGE AND ATTENUATING COMMON MODE NOISE	Non Provisional	2019-04-29		
P00802PCT01	Patent Cooperation Treaty	PCT/US2019/029656	POWER OVER DATA LINES SYSTEM USING SPLIT OR COUPLED CMCS AND DMCS FOR COUPLING DC VOLTAGE AND ATTENUATING COMMON MODE NOISE	Non Provisional	2019-04-29		
P00703TW01	Taiwan	107119993	Soft Charging of Switched Capacitors in Power Converter Circuits	Non Provisional			
P00711TW	Taiwan	106127113	Stress-Impaired Signal Correction Circuit.	Non Provisional	2017-08-10	201910959	
P00714TW01	Taiwan	106137707	Coordinated Event Sequencing.	Non Provisional	2017-11-01	2019-01323	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00716TW	Taiwan	106128251	New Soft Start Scheme for Resonant Converter and Resonant Switched Capacitor Converter.	Non Provisional	2017-08-21	201911718	
P00727TW01	Taiwan	107137750	High-Speed On-Chip Precision Buffer With Switched-Load Rejection	Non Provisional	2018-10-25		
P00728TW01	Taiwan		Synchronized Hiccup Overcurrent Protection of Multi-phase Switching	Non Provisional			
P00741TW01	Taiwan	108114054	Detecting Value of Output Capacitor In Switching Regulator	Non Provisional	2019-04-23		
P00742TW01	Taiwan	108130016	Isolation Architecture	Non Provisional	2019-08-22		
P00745TW01	Taiwan	108110575	Stacked Circuit Package with Molded Base Having Laser Drilled Openings for Upper Package	Non Provisional	2019-03-27		
P00753TW01	Taiwan	108132896	High Dynamic Range Analog-To-Digital Converter	Non Provisional	2019-09-12		
P00756TW01	Taiwan		REGULATOR LIGHT LOAD CONTROL TECHNIQUES	Non Provisional	2019-10-15		
P00771TW01	Taiwan	108136798	REGULATOR CIRCUIT PACKAGE TECHNIQUES	Non Provisional			
P00772TW01	Taiwan		SEGMENTED WINDING TECHNIQUES FOR A COUPLED INDUCTOR CIRCUIT	Non Provisional	2019-10-14		
P00702US02	United States of America	15/970,569	Predictive Ripple-Cancelling Signal Into Error Amplifier of Switch Mode Power Supply	Non Provisional	2018-05-03	2018/0331618	10,270,330
P00703US01	United States of America	15/713,348	Soft Start Methods of Switched Capacitor Converters.	Non Provisional	2017-09-22		10,027,223
P00703USPRO	United States of America	62/518,338	Soft Start Methods of Switched Capacitor Converters.	Provisional	2017-06-12		
P00711US	United States of America	15/671,080	Stress-Impaired Signal Correction Circuit.	Non Provisional	2017-08-07	20190041471	
P00714US01	United States of America	15/727,561	Coordinated Event Sequencing.	Non Provisional	2017-10-06	US20180336149	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00714USPRO	United States of America	62/507,978	Coordinated Event Sequencing.	Provisional	2017-05-18		
P00715US	United States of America	15/672,243	Open Circuit Based Rx Power Limiter for Wireless Power Transfer.	Non Provisional	2017-08-08	US-2019-0052112-A1	
P00716US	United States of America	15/675,632	Soft Start Circuit for Switched Resonant Power Converters	Non Provisional	2017-08-11		10,181,804
P00717US	United States of America	15/676,820	I2C Device Extender for Inter-Board Communication Over a Single-Channel Bidirectional Link.	Non Provisional	2017-08-14	US-2018-0373662-A1	
P00717USPRO	United States of America	62/523,161	I2C Slave Device Extension Over Single Communication Channel.	Provisional	2017-06-21		
P00718US	United States of America	15/712,779	LED Dimming	Non Provisional	2017-09-22		10,123,384
P00719US	United States of America	15/712,839	LED Dimming	Non Provisional	2017-09-22		10,201,052
P00720US	United States of America	15/726,154	LED DIMMING	Non Provisional	2017-10-05		10,136,488
P00724US01	United States of America	15/701,380	PASS THROUGH REGULATION OF BUCK-BOOST REGULATOR	Non Provisional	2017-09-11		10,135,340
P00725US01	United States of America	62/550,533	Power Over Ethernet Using Shielded Single Twisted Wire Pair	Provisional	2017-08-25		
P00725US02	United States of America	16/106,635	Power Over Ethernet Using Shielded Single Twisted Wire Pair	Non Provisional	2018-08-21	US-2019-0068385-A1	
P00726US	United States of America	15/823,477	PHASE LOCKED LOOP CALIBRATION FOR SYNCHRONIZING NON-CONSTANT FREQUENCY SWITCHING REGULATORS	Non Provisional	2017-11-27		10,218,366
P00727US	United States of America	15/795,181	High-Speed On-Chip Precision Buffer With Switched-Load Rejection	Non Provisional	2017-10-26	US 2019-0131959	10367486
P00728US	United States of America	15/795,197	Synchronized Hiccup Over-Current Protection of	Non Provisional	2017-10-26	US 2019-0131866 A1	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
			Multiphase Switching Converters				
P00729US01	United States of America	15/847,853	MINIMIZING BODY DIODE CONDUCTION IN SYNCHRONOUS CONVERTERS	Non Provisional	2017-12-19		10,291,128
P00730US01	United States of America	15/870,784	Method For Synchronizing Measurements Across Networks	Non Provisional	2018-01-12	US 2019-0223125	
P00731US01	United States of America	15/865,178	Broadband Compact Wilkinson Combiner With Coupled Inductors.	Non Provisional	2018-01-08	US 2019-0214700	
P00732US01	United States of America	62/588,784	Chopper Noise Reduction Technique	Provisional	2017-11-20		
P00732US02	United States of America	16/124,737	CHOPPER AMPLIFIERS WITH HIGH PASS FILTER FOR SUPPRESSING CHOPPING RIPPLE	Non Provisional	2018-09-07	2019/0158034	
P00734US01	United States of America	15/970,406	Self-Biasing Ideal Diode Circuit	Non Provisional	2018-05-03		10,333,425
P00735US01	United States of America	15/928,791	Transconductance amplifier with nonlinear transconductance and low quiescent current	Non Provisional	2018-03-22		10,270,393
P00736US01	United States of America	62/625,279	Robust Transceiver with High Common Mode Working Voltage Using Low Voltage Technology, with the Benefit of Full Isolation	Provisional	2018-02-01		
P00736US02	United States of America	16/249,692	Robust Transceiver with High Common Mode Working Voltage Using Low Voltage Technology, with the Benefit of Full Isolation	Non Provisional	2019-01-16	US 2019-0238181	
P00737US01	United States of America	62/627,051	Direct Injection For Load Current Feedforward For Fast Transient Response	Provisional	2018-02-06		
P00737US02	United States of America	16/127,876	Direct Injection For Load Current Feedforward For Fast Transient Response	Non Provisional	2018-09-11	US 2019-0245442	

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00738US01	United States of America	15/957,845	Light-Load Efficiency Improvement of Hybrid Switched Capacitor Converter	Non Provisional	2018-04-19		10,389,237
P00739US01	United States of America	62/641,834	Zero-voltage Switching Hybrid Switched-Capacitor Converter	Provisional	2018-03-12		
P00739US02	United States of America	16/273,659	Zero-voltage Switching Hybrid Switched-Capacitor Converter	Non Provisional	2019-02-12	US 2019-0280618	
P00740US01	United States of America	62/633,500	AVERAGED REFERENCE WITH FAULT MONITORING	Provisional	2018-02-21		
P00740US02	United States of America	16/275,124	AVERAGED REFERENCE WITH FAULT MONITORING	Non Provisional	2019-02-13	US 2019-0257871	
P00741US01	United States of America	15/960,246	Detecting Value of Output Capacitor In Switching Regulator	Non Provisional	2018-04-23		10,175,278
P00742US01	United States of America	16/111,125	Isolation Architecture	Non Provisional	2018-08-23		
P00743US01	United States of America	15/997,557	Multi-Chip Timing Alignment To A Common Reference Signal	Non Provisional	2018-06-04		
P00744US01	United States of America	62/643,390	Diplexer Network for galvanic isolation, reduced component count and better magnetics utilization for Data and Power Transmission on same cable	Provisional	2018-03-15		
P00744US02	United States of America	16/016,301	Termination for Wire Pair Carrying DC and Differential Signals	Non Provisional	2018-06-22		10,382,216
P00744US03	United States of America	16/126,843	TERMINATION FOR WIRE PAIR CARRYING DC AND DIFFERENTIAL SIGNALS	Non Provisional	2018-09-10	US-2019-0288862-A1	10,425,237
P00744US04	United States of America	16/148,698	TERMINATION FOR WIRE PAIR CARRYING DC AND DIFFERENTIAL SIGNALS USING ISOLATION TRANSFORMER WITH SPLIT PRIMARY AND SECONDARY WINDINGS	Non Provisional	2018-10-01		10,333,742
P00745US01	United States of America	62/648,835	MOLDED ELECTRONIC PACKAGES WITH EXTERNALLY ATTACHED PIN-GRID AND VERTICAL LEADED	Provisional	2018-03-27		

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00745US02	United States of America	16/152,182	COMPONENTS USING THROUGH-MOLD INTERCONNECTION FOR COMPONENT-ON-PACKAGE CIRCUITS	Non Provisional	2018-10-04	US-2019-0304865-A1	
P00746US01	United States of America	16/024,357	Bi-Direction DC Motor Control Method with Dual Voltage Mode Buck Converters	Non Provisional	2018-06-29		
P00747US01	United States of America	62/659,577	Negative Charge Pump Doubling Output Voltage Range for Step-Up LED Driver	Provisional	2018-04-18		
P00747US02	United States of America	16/127,928	Negative Charge Pump Doubling Output Voltage Range for Step-Up LED Driver	Non Provisional	2018-09-11		10,362,645
P00748US01	United States of America	62/671,391	High Conversion-Ratio Hybrid Switched Power Converter	Provisional	2018-05-14		
P00749US01	United States of America	62/665,265	Simultaneous Power Injection on Line and PHY side with Improved Diplexer Network for Data and Power Transmission on same cable.	Provisional	2018-05-01		
P00749US02	United States of America	16/396,566	Power over Data Lines System Using Pair of Differential Mode Chokes for Coupling DC Voltage and Attenuating Common Mode Noise	Non Provisional	2019-04-26		
P00750US01	United States of America	62/665,292	Return Loss Shaping through Deliberate Tuning and Compensation of MDI Component Parasitics	Provisional	2018-05-01		
P00750US02	United States of America		Return Loss Shaping through Deliberate Tuning and Compensation of MDI Component Parasitics	Non Provisional			

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
P00751US01	United States of America	16/116,797	Hybrid Inverting PWM Power Converters	Non Provisional	2018-08-29		
P00752US01	United States of America	16/112,593	Current Sensing Scheme for Hybrid Converter.	Non Provisional	2018-08-24		
P00753US01	United States of America	16/131,792	High Dynamic Range Analog-To-Digital Converter	Non Provisional	2018-09-14		10,447,291
P00756US01	United States of America	16/161,683	REGULATOR LIGHT LOAD CONTROL TECHNIQUES	Non Provisional	2018-10-16		
P00757US01	United States of America	62/712,762	Unified CM Terminations for Improved Mode Conversion	Provisional	2018-07-31		
P00757US02	United States of America	16/406,889	POWER OVER DATA LINES SYSTEM WITH COMBINED DC COUPLING AND COMMON MODE TERMINATION CIRCUITRY	Non Provisional	2019-05-08		
P00759US01	United States of America	16/141,308	BIDIRECTIONAL SIGNAL SEPARATION	Non Provisional	2018-09-25		
P00761US01	United States of America	16/186,238	A LOGARITHMIC SCALE ANALOG TO DIGITAL CONVERTER FOR WIDE DYNAMIC RANGE AVALANCHE PHOTODIODE CURRENT COMPANDING	Non Provisional	2018-11-09		
P00763US01	United States of America		High accuracy sampled-reference DAC	Provisional			
P00763US02	United States of America		High accuracy sampled-reference DAC	Non Provisional			
P00764US01	United States of America	62/736,826	CHARGE PUMPS WITH ACCURATE OUTPUT CURRENT LIMITING	Provisional	2018-09-26		
P00764US02	United States of America	16/577,146	CHARGE PUMPS WITH ACCURATE OUTPUT CURRENT LIMITING	Non Provisional	2019-09-20		
P00766US01	United States of America	62/760,641	ELECTRONICS PACKAGE CONFIGURATIONS FOR HIGH THERMAL AND/OR CURRENT TRANSMISSION	Provisional	2018-11-13		
P00766US02	United States of America		ELECTRONICS PACKAGE CONFIGURATIONS FOR HIGH	Non Provisional			

Patent Ref	Country	Application Number	Application Description	Patent/Design Type	Filed Date	Publication Number	Patent No.
			THERMAL AND/OR CURRENT TRANSMISSION				
P00771US01	United States of America	16/193,843	REGULATOR CIRCUIT PACKAGE TECHNIQUES	Non Provisional	2018-11-16		
P00772US01	United States of America	16/169,338	SEGMENTED WINDING TECHNIQUES FOR A COUPLED INDUCTOR CIRCUIT	Non Provisional	2018-10-24		
P00777US01	United States of America	62/744,926	Using a Coating for Improving Leakage, Return Loss and Isolation Rating in a Magnetic Device.	Provisional	2018-10-12		
P00779US01	United States of America	62/750,998	Diplexer Network with Galvanic Isolation and In-Line Power Injection.	Provisional	2018-10-26		
P00779US02	United States of America	16/433,670	POWER OVER DATA LINES SYSTEM USING POWER SUPPLY COUPLED TO END OF WINDING OF ISOLATION TRANSFORMER	Non Provisional	2019-06-06		
P00780US01	United States of America	62/754,282	Simultaneous Power Injection in PoE Systems	Provisional	2018-11-01		
P00780US02	United States of America	16/433,832	Simultaneous Power Injection in Power over Ethernet Systems	Non Provisional	2019-06-06		
P00781US02	United States of America		Simplified Pull Down and Kevin Sensing Technique	Non Provisional			
P00783US02	United States of America	16/518,683	POWER OVER DATA LINES SYSTEM WITH ACCURATE AND SIMPLIFIED CABLE RESISTANCE SENSING	Non Provisional	2019-07-22		
P00802US01	United States of America	16/396,571	POWER OVER DATA LINES SYSTEM USING SPLIT OR COUPLED CMCS AND DMCS FOR COUPLING DC VOLTAGE AND ATTENUATING COMMON MODE NOISE.	Non Provisional	2019-04-26		

DATED November 5, 2018

LINEAR TECHNOLOGY HOLDING LLC

AND

ANALOG DEVICES INTERNATIONAL UNLIMITED COMPANY

DEED OF TRANSFER

THIS DEED is made the 5th day of November 2018 and made between:

- (1) **Linear Technology Holding LLC**, a Delaware limited liability company (**LT Holding LLC**); and
- (2) **Analog Devices International Unlimited Company**, an Irish incorporated private unlimited company (**ADINTL**).

WHEREAS

- A. It has been agreed between the parties hereto that LT Holding LLC will make a contribution of Intellectual Property (as defined below) to ADINTL upon the terms and conditions hereinafter set out.

1. INTERPRETATION

1.1. Definitions:

For the purpose of this Deed,

"Controlled" means, with respect to any IP Right or Know-How, that LT Holding LLC has the right through its ownership or license of such IP Right or Know-How, to grant a license or other right under or to such item without violating the terms of any agreement with any third party;

"Intellectual Property" means all IP Rights, Know-How and related intangibles;

"IP Rights" means any patent, copyright, mark work, or utility model, any application or registration for any patent, copyright, mark work, or utility model, or any substitution, divisional, continuation, continuation-in-part, reissue, re-examination or extension (including supplementary protection certificate) of any of the foregoing, subsisting anywhere in the world;

"Know-How" means all proprietary information relating to electronic device technology, including trade secrets, technical information and knowledge, including specifications, drawings, technical data and details of manufacturing processes, and all associated data, but excluding IP Rights.

- 1.2. Headings are inserted for convenience only and do not affect the interpretation of the Deed.
- 1.3. Unless the context otherwise requires, words importing the singular include the plural and vice versa, words importing the masculine include the feminine, and words importing persons include corporations.
- 1.4. References to writing or similar expressions include where the context so admits transmission by telecopier or comparable means of communication.
- 1.5. References to any document include that document as amended or supplemented from time to time.

2. CONTRIBUTION

- 2.1. LT Holding LLC agrees and undertakes as of the Effective Date to make an irrevocable, non-repayable, unconditional contribution of all its Intellectual Property (including all rights attaching or accruing thereto), to ADINTL (the **Contribution**) and the parties agree to enter into the:

- 2.1.1. assignment of rights agreement between LT Holding LLC and ADINTL to be dated as of the Effective Date, as set out in Schedule 1 of this Deed.

3. EFFECTIVE DATE

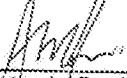
The transactions contemplated hereunder shall take effect as of November 5, 2018 (the **Effective Date**).

4. **MISCELLANEOUS**

- 4.1. **Further Assurance:** LT Holding LLC shall (and shall procure that any other necessary parties will) as soon as possible from the date hereof do all such acts and things as may be required to transfer to ADINTL all its Intellectual Property and to effect the Contribution.
- 4.2. **Invalidity:** If any term or provision in this Deed is held to be illegal or unenforceable, in whole or in part, under any enactment or rule of law, such term or provision or part will, to that extent, be deemed not to form part of this Deed but the enforceability of the remainder of this Deed will not be affected.
- 4.3. **Entire Agreement:** This Deed embodies the entire agreement between the parties and supersedes all previous statements, representations and agreements between the parties relating to the subject matter of this Deed.
- 4.4. **Counterparts:** This Deed may be entered into in any number of counterparts and by the parties to it on separate counterparts, each of which when so executed and delivered will be an original, but all the counterparts will together constitute one and the same instrument.
- 4.5. **Notices:** Any notice required to be given by any Party to another Party shall be in writing and will be validly served if delivered or sent by prepaid registered letter to its address given herein or such other address as may from time to time be notified for this purpose, and any notice so served will be deemed to have been served, if delivered, upon delivery and if posted, (forty-eight) 48 hours after the time at which it was posted.
- 4.6. **Governing Law and Submission to Jurisdiction:** This Deed and the documents to be entered into pursuant to it will be governed by and interpreted in accordance with the laws of the State of Delaware, without regard to any conflict of laws principles that would require the application of the laws of any other jurisdiction. All the parties irrevocably agree that the courts of the State of Delaware are to have exclusive jurisdiction to settle any disputes which may arise out of or in connection with this Deed and such documents.

IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

Linear Technology Holding LLC



Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

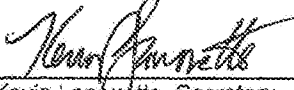
Leo McHugh, Director/Secretary

[Signature Page to Step 8(h)(3) Deed of Transfer]

IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

Linear Technology Holding LLC

Ali Husain, President


Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

Leo McHugh, Director/Secretary

[Signature Page to Step 8(h)(3) Deed of Transfer]

PATENT

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IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

Linear Technology Holding LLC

Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company



Denis Doyle, Director

Leo McHugh, Director/Secretary

{Signature Page to Step 2(h)(3) Deed of Transfer}

IN WITNESS whereof the parties have executed this Deed as of the date and year first herein written.

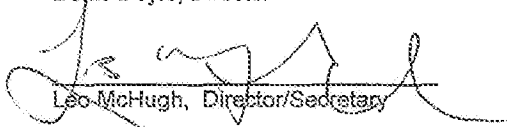
Linear Technology Holding LLC

Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director



Leo McHugh, Director/Secretary

[Signature Page to Step 8(h)(3) Deed of Transfer]

PATENT

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SCHEDULE 1

IP Assignment

ASSIGNMENT OF RIGHTS

This ASSIGNMENT OF RIGHTS (this "Assignment") is made effective as of November 5, 2018 (the "Effective Date") by and between Linear Technology Holding LLC, a Delaware limited liability company ("LT Holding LLC") and (2) Analog Devices International Unlimited Company, an Irish incorporated private unlimited company ("ADINTL").

WHEREAS, LT Holding LLC owns certain Intellectual Property (as defined below); and

WHEREAS, LT Holding LLC wishes to transfer LT Holding LLC's entire right, title and interest in and to such Intellectual Property to ADINTL.

NOW THEREFORE, in consideration of the mutual agreements and covenants set forth herein and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, and intending to be legally bound hereby, the parties agree as follows:

1. Certain Definitions.

(a) "Intellectual Property" means all IP Rights, Know-How, and related intangibles.

(b) "IP Rights" means any patent, copyright, mask work, or utility model, any application or registration for any patent, copyright, mask work or utility model, or any substitution, divisional, continuation, continuation-in-part, reissue, reexamination or extension (including supplementary protection certificate) of any of the foregoing, subsisting anywhere in the world.

(c) "Know-How" means all proprietary information relating to electronic device technology, including trade secrets, technical information and knowledge, including specifications, drawings, technical data and details of manufacturing processes, and all associated data, but excluding IP Rights.

2. For \$1 consideration, LT Holding LLC hereby assigns to ADINTL all of LT Holding LLC's right, title and interest in and to all Intellectual Property owned by LT Holding LLC as of the Effective Date, including the right to seek and obtain damages for any past infringement of the IP Rights and/or any past misappropriation of the Know-How, and including all rights and obligations of LT Holding LLC under any licenses or other encumbrances in force with respect to such Intellectual Property.

3. For clarity, the assignment under Paragraph 2 includes the sole right to file (a) substitutions, divisionals, continuations, continuations-in-part, reissues, reexaminations, extensions (including supplementary protection certificate) of and foreign counterparts to any of the IP Rights and (b) applications and/or registrations for any patent, copyright, mask work, utility model, trademark, and/or any other intellectual and/or industrial property right in respect of any of the Know-How, in each case ((a) and (b)) anywhere in the world (collectively "Related Rights").

4. LT Holding LLC hereby authorizes and requests the United States Commissioner for Patents and any official of any country and/or countries foreign to the United States whose duty it is to issue patents and/or other evidence and/or forms of intellectual and/or industrial property protection on the IP Rights applications and the Related Rights to issue the same to ADINTL, its successors, legal representatives and assigns.

5. LT Holding LLC hereby represents and warrants that it has full right to convey the entire interests herein assigned, and that it has not executed, and will not execute, any agreement in conflict herewith.

6. LT Holding LLC hereby covenants that it will communicate to ADINTL, its successors, legal representatives and assigns, any facts known to LT Holding LLC respecting the Intellectual Property and the Related Rights, testify in any legal proceeding, sign all lawful papers, make all rightful oaths, and generally do everything requested by ADINTL to aid ADINTL, its successors, legal representatives and assigns, to obtain full legal and beneficial title to, and enforce proper protection for, the Intellectual Property and the Related Rights anywhere in the world.

7. LT Holding LLC hereby agrees that ADINTL is the intended beneficiary of this instrument and may enforce its provisions against LT Holding LLC.

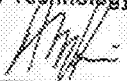
8. This instrument shall be governed by and interpreted in accordance with the laws of the State of Delaware, without regard to any conflict of laws principles that would require the application of the laws of any other jurisdiction; provided, however, that any matter arising under this instrument that relates solely to a patent granted or patent application filed in a jurisdiction shall be governed by the laws of such jurisdiction applicable to such patent or patent application.

9. This instrument may be executed or accepted in any number of counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

[Signature page follows]

IN WITNESS WHEREOF, each party has caused this Assignment to be executed in its name by its properly and duly authorized officer or representative as of the date first set forth above:

Linear Technology Holding LLC



Ali Husain, President

Kevin Lanouette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

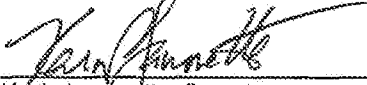
Leo McHugh, Director/Secretary

[Signature page to Step 8(h)(3) IP Assignment]

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Kevin Languette, Secretary

Analog Devices International Unlimited Company

Denis Doyle, Director

Leo McHugh, Director/Secretary

[Signature page to Step 8(h)(3) IP Assignment]

PATENT

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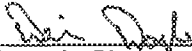
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[Signature page to Step 8(h)(3) IP Assignment]

PATENT

RECORDED: 05/28/2021

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