

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5373351

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JONATHAN EPHRAIM DAVID HURWITZ	01/07/2019
EDWARD CHAPIN GUTHRIE	01/30/2019
JOSEPH LEANDRO BALAIS PEJE	01/03/2019
RECEIVING PARTY DATA	
Name:	ANALOG DEVICES GLOBAL UNLIMITED COMPANY
Street Address:	3RD FLOOR, PAR LA VILLE PLACE 14
Internal Address:	PAR LA VILLE ROAD
City:	HAMILTON
State/Country:	BERMUDA
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16192400
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.
Address Line 1:	P.O. BOX 2938
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402
ATTORNEY DOCKET NUMBER:	3867.492US1
NAME OF SUBMITTER:	DIANA JOHNSON
SIGNATURE:	/Diana Johnson/
DATE SIGNED:	02/13/2019
Total Attachments: 9	
source=3867.492US1 Assignment signed#page1.tif	
source=3867.492US1 Assignment signed#page2.tif	
source=3867.492US1 Assignment signed#page3.tif	
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source=3867.492US1 Assignment signed#page9.tif

RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 3867.492US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jonathan Ephraim David Hurwitz, Edward Chapin
Guthrie, Joseph Leandro Balais Peje

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: January 7, 2019, January 30, 2019,
January 3, 2019

2. Name and address of receiving party(ies):

Name: Analog Devices Global Unlimited Company

Street Address: 3rd Floor, Par La Ville Place 14, Par La
Ville Road

City: Hamilton

Country: Bermuda

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 16/192,400

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: James L. Shands

Address:

Schwegman Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, Minnesota 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$ 0.00

☐ Enclosed

☐ Authorized to be charged to deposit account 19-
0743

8. Please charge any additional fees or credit any over
payments to our Deposit Account No.: 19-0743

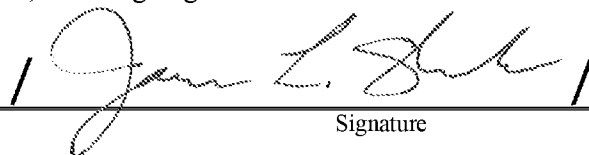
DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
of the original document.

James L. Shands/Reg. No. 54,439

Name of Person Signing



Signature

February 13, 2019

Date

Total number of pages including cover sheet: 9

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
REEL: 048316 FRAME: 0961

ASSIGNMENT

WHEREAS, I am a named inventor, **Jonathan Ephraim David Hurwitz, Edward Chapin Guthrie, Joseph Leandro Balais Peje**, of residence listed below, having invented certain new and useful improvements as described in an application for United States Letters Patent entitled "**MULTI-STAGE CONVERSION ANALOG-TO-DIGITAL CONVERTER**," (hereinafter referred to as "Application") and having internal reference number of **APD6334US02** which are described in a patent application filed on December 6, 2017, which application was assigned US application serial number 62/595,371, and which is titled **SUB-RANGING SAR/SINGLE-SLOPE ANALOG-TO-DIGITAL CONVERTER**; ; which are described in a patent application filed on June 12, 2017, which application was assigned EP application serial number PCTEP2017064326, and which is titled **CMOS IMAGE SENSORS WITH REDUCED POWER CONSUMPTION**; ; which are described in a patent application filed on June 10, 2016, which application was assigned US application serial number 62/348,800, and which is titled **CMOS IMAGE SENSOR WITH REDUCED POWER CONSUMPTION**.

WHEREAS, I hereby authorize and request the attorneys or agents associated with United States Patent and Trademark Office Customer No. **21186** to insert here in parentheses (Ser. No. 16/192,400; Filing Date: November 15, 2018) the filing date and serial number of the Application when known;

WHEREAS, **Analog Devices Global Unlimited Company**, (hereinafter referred to as "Assignee"), a Corporation of **Ireland**, with an address of **3rd Floor, Par La Ville Place 14, Par La Ville Road, Hamilton, Bermuda**, desires to acquire my entire right, title and interest in and to any and all inventions and improvements that are disclosed in the Application (hereinafter referred to as "Invention"), including any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign and transfer, and hereby agree to assign and transfer, to Assignee, all right, title and interest in and to the Invention and in and to the Application and all patents which may be granted therefrom, and all related applications (e.g., provisional applications, divisional applications, reissues, reexaminations, continuation applications, continuation-in-part applications, extensions thereof, design applications, applications in foreign countries, international applications, national phase applications, and the like). I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents, for the Invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also hereby assign and transfer, and hereby agree to assign and transfer to Assignee, all right, title and interest to the Invention, the Application or any related application throughout the world, including all rights of priority resulting from the filing of the Application or any related application, including but not limited to: the right to file applications and obtain patents, utility models, industrial models and designs for the Invention in Assignee's own name throughout the world, the right to claim priority from the Application or any related application

ATTORNEY DOCKET NO.
3867.492US1(APD6334US02)

ASSIGNMENT

when filing applications and obtaining patents, utility models, industrial models and designs for the Invention throughout the world, and all rights to publish cautionary notices reserving ownership of the Invention and all rights to register the Invention in appropriate registries. I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in and to Assignee.

I will communicate to Assignee any facts known to me respecting any improvements to the Invention; and I will sign all lawful papers, execute all rightful assignments, execute all provisional, divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in and to Assignee and to aid Assignee to obtain and enforce proper protection for the Invention in all countries and jurisdictions throughout the world. I irrevocably appoint Assignee as my attorney-in-fact to execute on my behalf any documents deemed necessary by Assignee to obtain and enforce proper protection for the Invention in all countries and jurisdictions throughout the world. I agree to testify and cooperate with Assignee in any judicial proceeding, administrative proceeding, post-grant proceeding, or other proceeding concerning the Invention (including litigation with a third party over any patent issued on the Invention), and Assignee agrees to cover my reasonable costs and expenses (if any).

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:

MULTI-STAGE CONVERSION
ANALOG-TO-DIGITAL CONVERTER

Full name of inventor:

Jonathan Ephraim David Hurwitz

Inventor's signature:

JED Hurwitz

Date:

7 Jan 19

Inventor Home Address:

10 Claremont Park
Edinburgh EH6 7PJ, United Kingdom

Witness's Print Name:

W BROWN

Witness's signature:

W Brown

ATTORNEY DOCKET NO.
3867.492US1(APD6334US02)

ASSIGNMENT

Witness Home Address:

9 CARRLEBERG COURT CRAIGEVAR
WIND, EDINBURGH, EH12 2LD, SCOTLAND, UK.

Title of Invention:

MULTI-STAGE CONVERSION
ANALOG-TO-DIGITAL CONVERTER

Full name of inventor:

Edward Chapin Guthrie

Inventor's signature:

Date:

Inventor Home Address:

4 Monument Sq. Apt 3
Charlestown, MA 02129

Witness's Print Name:

Witness's signature:

Witness Home Address:

ATTORNEY DOCKET NO.
3867.492US1(APD6334US02)

ASSIGNMENT

Title of Invention: MULTI-STAGE CONVERSION
ANALOG-TO-DIGITAL CONVERTER

Full name of inventor: Joseph Leandro Balais Peje

Inventor's signature: _____

Date: _____

Inventor Home Address: TC-3K Suntrust Adriatico Gardens
Adriatico, St. Malate
Manila, Philippines

Witness's Print Name: _____

Witness's signature: _____

Witness Home Address: _____

ASSIGNMENT

WHEREAS, I am a named inventor, **Jonathan Ephraim David Hurwitz, Edward Chapin Guthrie, Joseph Leandro Balais Peje**, of residence listed below, having invented certain new and useful improvements as described in an application for United States Letters Patent entitled "**MULTI-STAGE CONVERSION ANALOG-TO-DIGITAL CONVERTER**," (hereinafter referred to as "Application") and having internal reference number of **APD6334US02** which are described in a patent application filed on December 6, 2017, which application was assigned US application serial number 62/595,371, and which is titled **SUB-RANGING SAR/SINGLE-SLOPE ANALOG-TO-DIGITAL CONVERTER**; ; which are described in a patent application filed on June 12, 2017, which application was assigned EP application serial number PCTEP2017064326, and which is titled **CMOS IMAGE SENSORS WITH REDUCED POWER CONSUMPTION**; ; which are described in a patent application filed on June 10, 2016, which application was assigned US application serial number 62/348,800, and which is titled **CMOS IMAGE SENSOR WITH REDUCED POWER CONSUMPTION**.

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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby assign and transfer, and hereby agree to assign and transfer, to Assignee, all right, title and interest in and to the Invention and in and to the Application and all patents which may be granted therefrom, and all related applications (e.g., provisional applications, divisional applications, reissues, reexaminations, continuation applications, continuation-in-part applications, extensions thereof, design applications, applications in foreign countries, international applications, national phase applications, and the like). I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents, for the Invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also hereby assign and transfer, and hereby agree to assign and transfer to Assignee, all right, title and interest to the Invention, the Application or any related application throughout the world, including all rights of priority resulting from the filing of the Application or any related application, including but not limited to: the right to file applications and obtain patents, utility models, industrial models and designs for the Invention in Assignee's own name throughout the world, the right to claim priority from the Application or any related application

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I will communicate to Assignee any facts known to me respecting any improvements to the Invention; and I will sign all lawful papers, execute all rightful assignments, execute all provisional, divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in and to Assignee and to aid Assignee to obtain and enforce proper protection for the Invention in all countries and jurisdictions throughout the world. I irrevocably appoint Assignee as my attorney-in-fact to execute on my behalf any documents deemed necessary by Assignee to obtain and enforce proper protection for the Invention in all countries and jurisdictions throughout the world. I agree to testify and cooperate with Assignee in any judicial proceeding, administrative proceeding, post-grant proceeding, or other proceeding concerning the Invention (including litigation with a third party over any patent issued on the Invention), and Assignee agrees to cover my reasonable costs and expenses (if any).

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:	MULTI-STAGE CONVERSION ANALOG-TO-DIGITAL CONVERTER
Full name of inventor:	<u>Jonathan Ephraim David Hurwitz</u>
Inventor's signature:	_____
Date:	_____
Inventor Home Address:	10 Claremont Park Edinburgh EH6 7PJ, United Kingdom
Witness's Print Name:	_____
Witness's signature:	_____

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3867.492US1 (APD6334US02)

ASSIGNMENT

Witness Home Address:

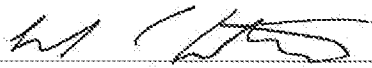
Title of Invention:

MULTI-STAGE CONVERSION
ANALOG-TO-DIGITAL CONVERTER

Full name of inventor:

Edward Chapin Guthrie

Inventor's signature:



Date:

1/30/2019

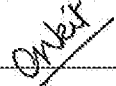
Inventor Home Address:

4 Monument Sq. Apt 3
Charlestown, MA 02129

Witness's Print Name:

ANKIT KHANDLWAL

Witness's signature:



Witness Home Address:

99 W. WYOMING AVE, #3
MELROSE, MA - 02176

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3867492US1 (APD6334US02)

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Title of Invention:

MULTI-STAGE CONVERSION
ANALOG-TO-DIGITAL CONVERTER

Full name of inventor:

Joseph Leandro Balais Peje

Inventor's signature:

Date:

Jan 3, 2019

Inventor Home Address:

TC-3K Suntrust Adriatico Gardens
Adriatico, St. Malate
Manila, Philippines

Witness's Print Name:

SHERWIN PAUL ALMAZAN

Witness's signature:

Witness Home Address:

L4832 03 GENTLE HEIGHTS
MANCANTON, GENTLE HEIGHTS CAVITE