505339051 02/21/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5385832

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOSEF STEIN	09/24/2018
DENIZ KARAKOYUNLU	10/22/2018
MATTHEW J. COLES	02/20/2019

RECEIVING PARTY DATA

Name:	ANALOG DEVICES, INC.
Street Address:	ONE TECHNOLOGY WAY
City:	NORWOOD
State/Country:	MASSACHUSETTS
Postal Code:	02062

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15944732

CORRESPONDENCE DATA

Fax Number: (617)646-8646

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: 617-646-8000

Email: patents_TommyF@wolfgreenfield.com **Correspondent Name:** WOLF, GREENFIELD & SACKS, P.C.

Address Line 1: 600 ATLANTIC AVENUE

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	G0766.70157US01
NAME OF SUBMITTER:	DARLENE J. MORIN
SIGNATURE:	/Darlene J. Morin/
DATE SIGNED:	02/21/2019

Total Attachments: 5

source=G076670157US01 Fully executed Assignment#page1.tif source=G076670157US01 Fully executed Assignment#page2.tif source=G076670157US01 Fully executed Assignment#page3.tif source=G076670157US01 Fully executed Assignment#page4.tif

PATENT 505339051 REEL: 048396 FRAME: 0283

source=G076670157US01 Fully executed Assignment#page5.tif

PATENT REEL: 048396 FRAME: 0284

ASSIGNMENT

WHEREAS, I am a named inventor, Yosef Stein; Deniz Karakoyunlu; and Matthew J. Coles, of residence listed below, having invented certain new and useful improvements as described in an application for United States Letters Patent entitled "PASSIVE SENSOR READER AUTHENTICATION PROTOCOL," (hereinafter referred to as "Application") and having internal reference number of APD5944US02;

WHEREAS, I hereby authorize and request the attorneys or agents associated with United States Patent and Trademark Office Customer No. 140980 to insert here in parentheses (Ser. No. 15/944,732 ; Filing Date: April 3, 2018) the filing date and serial number of the Application when known;

WHEREAS, Analog Devices, Inc. (hereinafter referred to as "Assignee"), a Massachusetts Corporation, with an address of One Technology Way, Norwood, MA 02062, 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 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

Page 1

ASSIGNMENT

ATTORNEY DOCKET NO.: G0766.70157US01 (APD5944US02)

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 Analog Devices, Inc. as my attorney-in-fact to execute on my behalf any documents deemed necessary by Analog Devices, Inc. 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.

Page 2

ATTORNEY DOCKET NO.: G0766.70157US01 (APD5944US02)

ASSIGNMENT

Title of Invention:	PASSIVE SENSOR READER AUTHENTICATION PROTOCOL
Full name of inventor:	Yosef Stein
Inventor's signature:	Starle
Date:	9/20/20/8
Inventor Home Address:	4 Turning Mill Road Sharon, Massachusetts 02067
Witness's Print Name:	Michael A. Simone
Witness's signature:	uplfa. A
Witness Home Address:	21 Turner St.
	Norfolk, MA 02056

ATTORNEY DOCKET NO.: G0766.70157US01 (APD5944US02)

ASSIGNMENT

Title of Invention:	PASSIVE	SENSOR	READER
	AUTHENTICAT	ON PROTOCOL	
Full name of inventor:	Deniz Karakoyun	lu	

Inventor's signature:

Date:	10/22/2018
-------	------------

Inventor Home Address:	29 Pinckney Street
	#2
	Somerville Massachusetts 02145

Witness's Print Name:	Sadaf Ahmad
Witness's signature:	Shows

Witness Home Address:	5 capot Road, Unit 317
	Medford, MA 02155

ATTORNEY DOCKET NO.: G0766.70157US01 (APD5944US02)

ASSIGNMENT

Title of Invention:

PASSIVE

SENSOR

READER

AUTHENTICATION PROTOCOL

Matthew J. Coles

Inventor's signature:

Full name of inventor:

Date:

Inventor Home Address:

2/20/2019

3 Forest Road

Medway, Massachusetts 02053

Witness's Print Name:

Witness's signature:

Witness Home Address:

Matthew M. Lamare

15 Goulding St. Apt 1

6203877,1

REEL: 048396 FRAME: 0289

PATENT

RECORDED: 02/21/2019