505723239 10/15/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES NORMAN HALL	10/09/2019
TERRY ALAN BARTLETT	10/09/2019
WILLIAM CRAIG MCDONALD	10/09/2019

RECEIVING PARTY DATA

Name:	TEXAS INSTRUMENTS INCORPORATED
Street Address:	12500 TI BLVD.
Internal Address:	M/S 3999
City:	DALLAS
State/Country:	TEXAS
Postal Code:	75243

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16653026

CORRESPONDENCE DATA

Fax Number: (214)567-2228

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: 214-479-1230 **Email:** uspto@ti.com

Correspondent Name: TEXAS INSTRUMENTS INCORPORATED

Address Line 1: P O BOX 655474, M/S 3999
Address Line 4: DALLAS, TEXAS 75265

ATTORNEY DOCKET NUMBER: TI-90255

NAME OF SUBMITTER: MARK E. COURTNEY

SIGNATURE: /Mark E. Courtney/

DATE SIGNED: 10/15/2019

Total Attachments: 2

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PATENT 505723239 REEL: 050727 FRAME: 0531

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s).

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invertion disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	A MEMS-BASED PHASE SPATIAL LIGHT MODULATING ARCHITECTURE		
NONPROVISIONAL APPLICATION NO.	16653026	FILING DATE	2019-10-15
,			

SIGNATURE OF INVENTOR	1/2 /1/2 / 1
PRINTED NAME OF INVENTOR	James Norman Hall
DATE	10-9-21919
RESIDENCE (CITY AND STATE)	4007 Pecan Orchard Dr., Parker, TX 75002

PATENT REEL: 050727 FRAME: 0532

SIGNATURE OF INVENTOR	De ale Britt
PRINTED NAME OF INVENTOR	Terry Alan Bartlett
DATE	10/9/19
RESIDENCE (CITY AND STATE)	4214 Alta Vista Lane, Dallas, TX 75229
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William Craig McDonald
DATE	10/9/2019
RESIDENCE (CITY AND STATE)	1419 Normandy Lane, Allen, TX 75002

Assignee agrees and accepts the assignment

TEXAS INSTRUMENTS INCORPORATED

By: ------

After recording, return Assignment to:

Texas instruments incorporated PO Box 655474, M/S 3999 Dallas, TX 75265

> PATENT REEL: 050727 FRAME: 0533

RECORDED: 10/15/2019