PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD P. COLLINS	04/03/2019

RECEIVING PARTY DATA

Name:	MICROCHIP TOUCH SOLUTIONS LIMITED	
Street Address:	MICROCHIP HOUSE 720, WHARFEDALE ROAD	
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City:	WOKINGHAM, BERKSHIRE	
State/Country:	UNITED KINGDOM	
Postal Code:	RG41 5TP	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16379687
Application Number:	62785141

CORRESPONDENCE DATA

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ANDREW J. BACA **Correspondent Name:** Address Line 1: P.O. BOX 2550

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ATTORNEY DOCKET NUMBER:	3780-14756US & 14756.1US	
NAME OF SUBMITTER:	ANDREW J. BACA	
SIGNATURE:	/Andrew J. Baca/	
DATE SIGNED:	04/11/2019	

Total Attachments: 2

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PATENT REEL: 048862 FRAME: 0087 505423365

ASSIGNMENT

WHEREAS, I, the undersigned sole inventor or one of the undersigned joint inventors, of residence as listed, invented new and useful subject matter disclosed by the patent application entitled DIGITAL-TO-ANALOG CONTROLLER-REFERENCED TOUCH SENSING SYSTEM, AND RELATED SYSTEMS, METHODS, AND DEVICES;

WHEREAS, I invented said subject during the course of my engagement or employment by Microchip Touch Solutions Limited, with a registered address at Microchip House 720 Wharfedale Road, Winnersh Triangle, Wokingham, Berkshire, United Kingdom, RG41 5TP, a corporation organized under the laws of England and Wales and having a place of business at Microchip House 720 Wharfedale Road, Winnersh Triangle, Wokingham, Berkshire, United Kingdom, RG41 5TP (hereinafter "Assignee");

WHEREAS, Assignee wants to acquire my entire right, title, and interest in and to said subject matter and in and to said patent application and any and all letters patent that issue therefrom:

NOW, THEREFORE, for and in good and valuable consideration, the receipt and sufficiency of which I hereby acknowledge, I hereby assign to Assignee all right, title, and interest in and to said subject matter and in and to said patent application and any and all patents that issue therefrom, as well as any and all divisions, reissues, continuations, continuations in part, and extensions thereof. I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said subject matter, insofar as my interest is concerned, to Assignee.

I hereby assign to Assignee all right, title, and interest in and to said subject matter throughout the world, including the right to file applications and obtain patents, utility models, industrial models, and designs for said subject matter in Assignee's own name throughout the world and further including the right to claim priority to said patent application under any international convention, all rights to publish cautionary notices reserving ownership of said subject matter, and all rights to register said subject matter in appropriate registries throughout the world. I shall execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any and all other papers in connection therewith to perfect Assignee's right, title, and interest in and to said subject matter throughout the world.

I hereby covenant and agree that I have full right to convey the entire interest herein assigned and that I have not executed, and shall not execute, any agreement in conflict herewith.

I shall communicate to Assignee any and all facts known to me concerning any improvements. At the expense of Assignee, I shall testify in any and all legal proceedings, sign any and all lawful papers, execute any and all divisional, continuation, continuation-in-part, reissue, and substitute applications, make any and all lawful oaths or declarations, and generally do everything possible to perfect Assignee's right, title, and interest in and to said subject matter and to help Assignee obtain and enforce proper protection for said subject matter in any and all countries.

This Assignment shall bind the parties' successors, assigns, and legal representatives.

PATENT REEL: 048862 FRAME: 0088 Title of Patent Application: DIGITAL-TO-ANALOG CONTROLLER-REFERENCED

TOUCH SENSING SYSTEM, AND RELATED SYSTEMS,

METHODS, AND DEVICES

Signature of Inventor:

Name of Inventor: Richard P. Collins

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Date: 3/4 /4/2 2019

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PATENT REEL: 048862 FRAME: 0089