

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KOJI NII	03/28/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RENESAS ELECTRONICS CORPORATION
<b>Street Address:</b>	3-2-24 TOYOSU
<b>Internal Address:</b>	KOT-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	135-0061
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16191429
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(866)535-2006
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<b>ATTORNEY DOCKET NUMBER:</b>	104-P025
<b>NAME OF SUBMITTER:</b>	C. DOULGASS THOMAS
<b>SIGNATURE:</b>	/C. Douglass Thomas/
<b>DATE SIGNED:</b>	07/13/2020
<b>Total Attachments: 1</b>	
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## ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

### PROGRAMMABLE RESISTIVE MEMORY FORMED BY BIT SLICES FROM A STANDARD CELL LIBRARY

- for which I have executed a U.S. patent application on even date herewith.  
(Accompanying)  
 which bears U.S. Patent Application No. 16/191,429  
 which is a U.S. Patent Application No. 16/191,429.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

- 1) Sell, assign and transfer to Renesas Electronics Corporation, a Japanese Corporation having a place of business at having offices at 3-2-24 Toyosu, Koto-ku, Tokyo 135-0061, Japan, ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

1) Signature: Koji Nii Date: March 28, 2020  
Typed Name: Koji Nii

Docket No. 104-P025