

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5617005

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
POWERCHIP TECHNOLOGY CORPORATION	06/28/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	POWERCHIP SEMICONDUCTOR MANUFACTURING CORPORATION
<b>Street Address:</b>	NO. 18, LI-HSIN RD. 1, HSINCHU SCIENCE PARK,
<b>City:</b>	HSINCHU
<b>State/Country:</b>	TAIWAN
<b>PROPERTY NUMBERS Total: 20</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	6995086
Patent Number:	7145644
Patent Number:	7182873
Patent Number:	6913516
Patent Number:	6963213
Patent Number:	7205189
Patent Number:	7575941
Patent Number:	6867099
Patent Number:	6914732
Patent Number:	7412090
Patent Number:	7030015
Patent Number:	7060560
Patent Number:	7192832
Patent Number:	7019582
Patent Number:	7125738
Patent Number:	7221994
Patent Number:	7180128
Patent Number:	7029973
Patent Number:	7035704
Patent Number:	7235839

**CORRESPONDENCE DATA****Fax Number:** (949)391-4699*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:** 886223692800**Email:** usa@jcipgroup.com**Correspondent Name:** JCIPRNET**Address Line 1:** P.O. BOX 600 TAIPEI GUTING**Address Line 4:** TAIPEI CITY, TAIWAN 10099**ATTORNEY DOCKET NUMBER:** TW2085**NAME OF SUBMITTER:** BELINDA LEE**SIGNATURE:** /Belinda Lee/**DATE SIGNED:** 07/14/2019**Total Attachments: 9**

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## ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS


**Powerchip Technology Corporation** a corporation having a place of business at No. 12, Li-Hsin Rd. I, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C. (hereafter ASSIGNOR) has been assigned or otherwise has an ownership interest in certain new and useful improvements as set forth in the patents and patent applications listed in attached Appendix A.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR hereby:


- 1) Sell(s), assign(s) and transfer(s) to **Powerchip Semiconductor Manufacturing Corporation**, a corporation having a place of business at No. 18, Li-Hsin Rd. I, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C. (hereinafter referred to as "ASSIGNEE") the entire right, title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed therein.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application(s) or any division(s), continuation(s), substitute(s), re-examination(s) or reissue(s) 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(s), as well as any derivative and 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 representative(s), and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that ASSIGNOR has not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signatures of Assignor and Assignee  
with the execution date of this Assignment indicated beside the signature(s).

Assignor (Conveying Party):

By:  Date: 2019.06.28  
Typed Name: **STEVE CHEN**  
Title: **CHAIRMAN**  
Company: **Powerchip Technology Corporation**  
No. 12, Li-Hsin Rd. I, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.

Assignee (Receiving Party):

By:  Date: 2019.06.28  
Typed Name: **CHONG-JEN HUANG**  
Title: **CHAIRMAN**  
Company: **Powerchip Semiconductor Manufacturing Corporation**  
No. 18, Li-Hsin Rd. I, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.

## Appendix A

	Patent No.	Issue Date	Attorney Docket No.	client Docket No.
1	6420891	2002/7/16	89595-US-PA	PT-AP-0089-US
2	6531776	2003/3/11	89596-US-PA	PT-AP-0092-US
3	6444574	2002/9/3	89599-US-PA	PT-AP-0095-US
4	6583055	2003/6/24	89600-US-PA	PT-AP-0096-US
5	6551877	2003/04/22	08871-US-PA	PT-AP-0106-US
6	6696350	2004/02/24	08979-US-PA	PT-AP-0108-US
7	6628550	2003/09/30	08938-US-PA	PT-AP-0107-US
8	6642111	2003/11/04	09168-US-PA	PT-AP-0116-US
9	6766208	2004/7/20	89598-US-PA	PT-AP-0094-US
10	6706602	2004/03/16	09361-US-PA	PT-AP-0120-US
11	6794710	2004/09/21	09134-US-PA	PT-AP-0115-US
12	6659847	2003/12/9	89597-US-PA	PT-AP-0093-US
13	6670254	2003/12/30	08870-US-PA	PT-AP-0104-US
14	6870212	2005/03/22	09069-US-PA	PT-AP-0110-US
15	6778438	2004/8/17	89604-US-PA	PT-AP-0101-US
16	6653183	2003/11/25	89607-US-PA	PT-AP-0105-US
17	6730959	2004/05/04	09133-US-PA	PT-AP-0114-US
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19	6639836	2003/10/28	09359-US-PA	PT-AP-0118-US
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21	6875660	2005/04/05	10220-US-PA	PT-AP-0143-US
22	6765260	2004/07/20	09191-US-PA	PT-AP-0117-US
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31	6774428	2004/08/10	09918-US-PA	PT-AP-0130-US
32	6770934	2004/08/03	10326-US-PA	PT-AP-0149-US
33	6893963	2005/5/17	89609-US-PA	PT-AP-0121-US
34	6745102	2004/6/1	89617-US-PA	PT-AP-0150-US
35	6766213	2004/7/20	89616-US-PA	PT-AP-0146-US
36	6923188	2005/8/2	89622-US-PA	PT-AP-0173-US
37	6737700	2004/5/18	89613-US-PA	PT-AP-0136-US
38	7461472	2008/12/09	10619-US-PA	PT-AP-0145-US

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39	6843833	2005/01/18	10682-US-PA	PT-AP-0163-US
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41	6882408	2005/4/19	89620-US-PA	PT-AP-0161-US
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43	6943404	2005/09/13	11039-US-PA	PT-AP-0170-US
44	6768162	2004/07/27	10847-US-PA	PT-AP-0175-US
45	7255114	2007/08/14	10573-US-PA	PT-AP-0153-US
46	6911690	2005/06/28	11040-US-PA	PT-AP-0176-US
47	6811662	2004/11/02	10683-US-PA	PT-AP-0164-US
48	6815758	2004/11/09	11041-US-PA	PT-AP-0177-US
49	6881590	2005/4/19	89625-US-PA	PT-AP-0180-US
50	6898539	2005/5/24	89610-US-PA	PT-AP-0125-US
51	6917070	2005/7/12	89607-US-PA-1	PT-AP-0105-US-DIV
52	6897521	2005/05/24	11422-US-PA	PT-AP-0187-US
53	6757208	2004/6/29	89618-US-PA	PT-AP-0151-US
54	7008733	2006/3/7	89623-US-PA	PT-AP-0178-US
55	6806104	2004/10/19	11535-US-PA	PT-AP-0193-US
56	6963105	2005/11/8	89612-US-PA	PT-AP-0133-US
57	6869842	2005/3/22	89613-US-PA-1	PT-AP-0136-US-DIV
58	6910956	2005/6/28	89631-US-PA	PT-AP-0209-US
59	6865434	2005/3/8	89621-US-PA	PT-AP-0162-US
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70	7049189	2006/05/23	12694-US-PA	PT-AP-0233-US
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73	6838343	2005/01/04	09191-US-PA-1	PT-AP-0117-US-DIV
74	6821849	2004/11/23	10847-US-PA-1	PT-AP-0175-US-DIV
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76	7038267	2006/05/02	12409-US-PA	PT-AP-0219-US
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83	6984559	2006/01/10	12812-US-PA	PT-AP-0253-US
84	6995086	2006/2/7	89633-US-PA	PT-AP-0225-US
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87	6913516	2005/07/05	12693-US-PA	PT-AP-0232-US
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92	6914732	2005/7/5	89619-US-PA	PT-AP-0158-US
93	7412090	2008/8/12	89652-US-PA	PT-AP-0294-US
94	7030015	2006/4/18	89644-US-PA	PT-AP-0260-US
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109	7057940	2006/06/06	11040-US-PA-2	PT-AP-0176-US-DIV1
110	7166513	2007/01/23	11040-US-PA-1	PT-AP-0176-US-DIV2
111	7195982	2007/03/27	14529-US-PA	PT-AP-0329-US
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117	7235992	2007/6/26	89649-US-PA	PT-AP-0286-US
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119	7389930	2008/6/24	89645-US-PA	PT-AP-0263-US
120	7462902	2008/12/09	13940-US-PA	PT-AP-0306-US

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121	7074674	2006/07/11	14527-US-PA	PT-AP-0326-US
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147	7612433	2009/11/03	15597-US-PA	PT-AP-0337-US
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154	7268055	2007/09/11	16007-US-PA	PT-AP-0420-US
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159	7442980	2008/10/28	16506-US-PA	PT-AP-0462-US
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162	7445993	2008/11/04	15601-US-PA	PT-AP-0375-US
163	7285450	2007/10/23	15768-US-PA	PT-AP-0391-US
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166	7355241	2008/04/08	17565-US-PA	PT-AP-0504-US
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176	7445999	2008/11/04	13283-US-PA-1	PT-AP-0282-US-DIV
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182	7452775	2008/11/18	14528-US-PA-1	PT-AP-0328-US-DIV-1
183	7285463	2007/10/23	15362-US-PA-1	PT-AP-0364-US-DIV
184	7435642	2008/10/14	20945-US-PA	PT-AP-0715-US
185	7433750	2008/10/7	89663-US-PA	PT-AP-0428-US
186	7235444	2007/06/26	18401-US-PA-1	PT-AP-0587-US-DIV
187	7485529	2009/02/03	13281-US-PA-1	PT-AP-0279-US-DIV
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196	7449902	2008/11/11	17584-US-PA-1	PT-AP-0511-US-DIV
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198	7855378	2010/12/21	89690-US-PA	PT-AP-1100-US
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201	8140184	2012/03/20	23587-US-PA	PT-AP-0852-US
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203	7663904	2010/02/16	13992-US-PA-1	PT-AP-0311-US-DIV
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