503909718 07/11/2016

EPAS ID: PAT3956370

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHUN-JU SHEN	07/01/2016
MAO-TER CHEN	07/01/2016
JENN-GANG CHERN	07/11/2016

RECEIVING PARTY DATA

Name:	SK HYNIX MEMORY SOLUTIONS INC.
Street Address:	3103 NORTH FIRST STREET
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15207231

CORRESPONDENCE DATA

Fax Number: (571)327-5452

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: 571-327-5450

Email: ipntlaw@ipntlaw.com
Correspondent Name: IP & T GROUP LLP

Address Line 1: 8230 LEESBURG PIKE SUITE 650

Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	SKHYP103
NAME OF SUBMITTER:	MYUNG SOO KIM
SIGNATURE:	/Myung Soo KIM/
DATE SIGNED:	07/11/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT 503909718 REEL: 039126 FRAME: 0357

Attorney Docket No.: SKHYP103

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS	Chun-Ju SHEN	hereinafter referred to collectively as the assignor and
inventor, has invented	d a certain improvement rela	ating to
	START-UP CIRCUIT FO	R BANDGAP REFERENCE .
said application h , as Application the specification of	Serial No, and was a of which was filed under the	ed States Patent and Trademark Office on amended on(if applicable); Patent Cooperation Treaty on, s of America being designated.
AND WHEREA	S SK Hynix M	emory Salutions Inc
hereinafter referred to said application, inch	o as the assignee or applicanuding any and all divisions	tt, is desirous of acquiring the entire right, title and interest in and to and continuations thereof, and in and to said invention and any and ing any and all renewals, reissues and prolongations thereof;
valuable consideration assignor hereby assigned exclusive right, titles and in and to said in reissues and prolonge and enjoy the said apany and all patents thereof, with all the and during the term of prolongations thereof	on paid by said assignee to gus, sells and transfers to sa and interest in and to said ap- vention and any and all pate ations thereof; said assignee oplication, including any and which may be granted the rights, powers, privileges a or terms of any and all such f, for the use and benefit of all a manner as the said as	and in consideration of One Dollar (\$1.00), and other good and said assigner, the receipt of which is hereby acknowledged, said id assignee, and said assignee's successors and assigns, the full and oplication, including any and all divisions and continuations thereof, ents which may be granted therefor, including any and all renewals, and said assignee's successors and assigns, to have, hold, exercise deall divisions and continuations thereof, and the said invention and refor, including any and all renewals, reissues and prolongations and advantages in anywise arising from or appertaining thereto, for patents when granted, including any and all renewals, reissues and of said assignee, and said assignee's successors and assigns, in as assignor might or could have held and enjoyed the same, if this
successors or assigns		perform, upon the request of said assignee, or said assignee's the obtaining or to the asserting of said patents, including any and
Patent on said appl		nests the Commissioner of Patents and Trademarks to issue Letters Il divisions and continuations thereof, to said assignee, and said herewith.
		declare that the above-identified application was made or authorized inventor or an original joint inventor of a claimed invention in the
		I false statement made in this declaration is punishable under 18 e than five (5) years, or both.
ASSIGNOR (INVE		
Signature:		Date: _7///2016
Printed or Typed Na	me: Chun-Ju SH	<u>EN</u>

SKhynix

Attorney Docket No.: SKHYP103

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS	Mao-Ter CHEN	, hereinafter referred to collectively as the assignor and
inventor, has invented a c	ertain improvement relating to	9
STA	RT-UP CIRCUIT FOR BA	NDGAP REFERENCE ,
as Application Seria	g been filed in the United Stat al No, and was amende	tes Patent and Trademark Office on ed on(if applicable); t Cooperation Treaty on, merica being designated.
AND WHEREAS	SK Hynix Memory	Solutions Inc.
hereinafter referred to as said application, includin	the assignee or applicant, is de g any and all divisions and cor	esirous of acquiring the entire right, title and interest in and to ntinuations thereof, and in and to said invention and any and y and all renewals, reissues and prolongations thereof;
valuable consideration prassignor hereby assigns, exclusive right, title and it and in and to said inventive reissues and prolongation and enjoy the said applicany and all patents which thereof, with all the right and during the term or te prolongations thereof, for	aid by said assignee to said a sells and transfers to said assi- interest in and to said applicati- ion and any and all patents what is thereof; said assignee, and station, including any and all di- ich may be granted therefor, its, powers, privileges and adverses of any and all such patent or the use and benefit of said manner as the said assignor	a consideration of One Dollar (\$1.00), and other good and assignor, the receipt of which is hereby acknowledged, said gnee, and said assignee's successors and assigns, the full and ion, including any and all divisions and continuations thereof, hich may be granted therefor, including any and all renewals, said assignee's successors and assigns, to have, hold, exercise ivisions and continuations thereof, and the said invention and including any and all renewals, reissues and prolongations vantages in anywise arising from or appertaining thereto, for ts when granted, including any and all renewals, reissues and assignee, and said assignee's successors and assigns, in as might or could have held and enjoyed the same, if this
	y and all acts relating to the o	rm, upon the request of said assignee, or said assignee's btaining or to the asserting of said patents, including any and
Patent on said application		ne Commissioner of Patents and Trademarks to issue Letters sions and continuations thereof, to said assignee, and said ith.
		that the above-identified application was made or authorized or or an original joint inventor of a claimed invention in the
	wledge that any willful false aprisonment of not more than	statement made in this declaration is punishable under 18 five (5) years, or both.
ASSIGNOR (INVENTO	R):	
Signature:		Date: <u>27/01/2=14</u> ,
Printed or Typed Name:	Mao-Ter CHEN	···············

SKhynix

Attorney Docket No.: SKHYP103

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS	Jenn-Gang CHERN	, hereinafter referred to collectively as the assignor and
inventor, has invented	l a certain improvement relating	to
s	TART-UP CIRCUIT FOR BA	ANDGAP REFERENCE ,
as Application f [] the specification of [Serial No	aving been filed in the United Sta Serial No, and was amend	
said application, inch	o as the assignee or applicant, is c iding any and all divisions and co	desirous of acquiring the entire right, title and interest in and to ontinuations thereof, and in and to said invention and any and my and all renewals, reissues and prolongations thereof;
valuable consideration assignor hereby assigner hereby assigner exclusive right, title and in and to said inversion and enjoy the said apany and all patents of thereof, with all the and during the term of prolongations thereof	n paid by said assignee to said assignes, sells and transfers to said assign interest in and to said applicate to an any and all patents we trions thereof; said assignee, and plication, including any and all of which may be granted therefor, rights, powers, privileges and adverterms of any and all such pater for the use and benefit of said a manner as the said assigned.	assignor, the receipt of which is hereby acknowledged, said assignor, the receipt of which is hereby acknowledged, said assignee, and said assignee's successors and assigns, the full and tion, including any and all divisions and continuations thereof which may be granted therefor, including any and all renewals, said assignee's successors and assigns, to have, hold, exercise divisions and continuations thereof, and the said invention and including any and all renewals, reissues and prolongations evantages in anywise arising from or appertaining thereto, for the substitution including any and all renewals, reissues and diassignee, and said assignee's successors and assigns, in as or might or could have held and enjoyed the same, if this
successors or assigns		orm, upon the request of said assignee, or said assignee's obtaining or to the asserting of said patents, including any and
Patent on said appli		the Commissioner of Patents and Trademarks to issue Letters isions and continuations thereof, to said assignee, and said vith.
		e that the above-identified application was made or authorized or or an original joint inventor of a claimed invention in the
	knowledge that any willful false or imprisonment of not more than	e statement made in this declaration is punishable under 18 five (5) years, or both.
ASSIGNOR (INVEN	/1 /1//	,
Signature:	from Jung he	m Date: 7/11/2016
Printed or Typed Nar	ne: Jenn-Gang CHER	N

PATENT REEL: 039126 FRAME: 0360

RECORDED: 07/11/2016