07/12/2017 504452828

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4499529

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RANVEER CHANDRA	02/11/2015
STEPHEN E. HODGES	02/17/2015
JULIA L. MEINERSHAGEN	02/05/2015
NISSANKA ARACHCHIGE BODHI PRIYANTHA	02/09/2015
ANIRUDH BADAM	02/23/2015
THOMAS MOSCIBRODA	02/05/2015
PAN HU	02/07/2015
ANTHONY JOHN FERRESE	02/05/2015
EVANGELIA SKIANI	02/10/2015

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC		
Street Address:	ONE MICROSOFT WAY		
City:	REDMOND		
State/Country:	WASHINGTON		
Postal Code:	98052		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15613372

CORRESPONDENCE DATA

Fax Number: (509)755-7252

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: 509-755-7262

Email: usdocket@microsoft.com

Correspondent Name: WOLFE-SBMC

116 W. PACIFIC AVE. Address Line 1:

Address Line 2: SUITE 300

Address Line 4: SPOKANE, WASHINGTON 99201

ATTORNEY DOCKET NUMBER:	356146-US-CNT
NAME OF SUBMITTER:	MARK F. NIEMANN

PAIENI REEL: 042983 FRAME: 0616 504452828

SIGNATURE:	/Mark F. Niemann/
DATE SIGNED:	07/12/2017
Total Attachments: 18	
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PATENT REEL: 042983 FRAME: 0617

PATENT ASSIGNMENT MS Docket No.: 356146.01

inventor of	subject matter ("I		inventor or an original join nd/or claimed in a paten FION"), which:
	ASSIGNEE'S legal r LLC., One Microsof LEGAL REPRESENT on the following Office	ASSIGNOR hereby authorepresentative, Microsoft of Way, Redmond, Washings ATIVES), to insert here and given Application e	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed No by) this
		ary 9, 2015 and was given following Office " <u>US</u> ";	Application No
behalf of itse of acquiring priority, in t derived ther	elf and its successors, the entire and exc he INVENTION and the from, such as cont	s and assigns ("ASSIGNEE"), clusive rights, title and in he APPLICATION (and all o inuing applications, in wh	limited liability company, or is entitled to, and is desirous terest, including the right of the applications and patents tole or in part, in and for the PLICATION DERIVATIVES"));
to insert the	•	ling date, and Office into	EE'S LEGAL REPRESENTATIVES the following table for any
	No.		Office US

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

lane clos	- 14 FJ 2015
Inventor's Signature	Date
Ranveer Chandra	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 356146.01

· · · · · · · · · · · · · · · · · · ·	,	inventor or an original joint
inventor of subject matter ("lapplication entitled "Suppressing		•
		• •
☐ will be filed.	ASSIGNOR hereby autho	rizes, and requests,
	representative, Microsoft	
LLC., One Microsof	t Way, Redmond, Washingt	on 98052 (ASSIGNEE'S
LEGAL REPRESENT	ATIVES), to insert here	in parentheses (filed
on	and given Application	No by
the following Office	e) this
	olication No., filing date, ar	
🛛 was filed on Februa	ary 9, 2015 and was given	Application No
	following Office " <u>US</u> ";	
<u>14/01/,/13</u> by the	following office <u>03</u> ,	
Microsoft Technology Lice	ensing, LLC, a Washington	limited liability company, on
behalf of itself and its successors	and assigns ("ASSIGNEE"),	is entitled to, and is desirous
	-	
of acquiring, the entire and exc	clusive rights, title and in	terest, including the right of
of acquiring, the entire and exc priority, in the INVENTION and the	clusive rights, title and in the APPLICATION (and all o	terest, including the right of ther applications and patents
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For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

	Salvas	17 February 2015	
	tor's Signature	Date	
	-	Date	
Stepr	ien E. Hodges		
Printe	ed Name in English	Printed Name in Native Language	
		(if other than English)	

inventor of	of	subject matter ("INVENTION") disclosed and/or claimed in a patent
application	n e	ntitled "Suppressing Power Spikes" ("APPLICATION"), which:
	\boxtimes	will be filed. ASSIGNOR hereby authorizes, and requests,
		ASSIGNEE'S legal representative, Microsoft Technology Licensing,
		LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S
		LEGAL REPRESENTATIVES), to insert here in parentheses (filed on
		February 9, 2015 and given Application No. 14/617,719 by the
		following Office <u>US – United States Patent and Trademark Office</u>) this
		APPLICATION's Application No., filing date, and Office, when known;
		was filed on and was given Application

No ______ by the following Office

I Julia L. Meinershagen ("ASSIGNOR") am the original inventor or an original joint

Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office	
Application No. 15/613,372	06/05/2017	US	

MS Docket No.: <u>356146.01</u>

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

222-7-1	2/5/2015
Inventor's Signature	Date
Julia L. Meinershagen	
Printed Name in English	Printed Name in Native Language
200	(if other than English)

	anka Arachchige Bodhi Priyantha ("ASSIGNOR") am the original inventor or bint inventor of subject matter ("INVENTION") disclosed and/or claimed in a
	cation entitled "Suppressing Power Spikes" ("APPLICATION"), which:
	will be filed. ASSIGNOR hereby authorizes, and requests,
	ASSIGNEE'S legal representative, Microsoft Technology Licensing,
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed
	on 02/09/2015 and given Application No. 14/617,719 by
	the following Office
	APPLICATION's Application No., filing date, and Office, when known;
	was filed on and was given Application
	Noby the following Office
250 1900 130 J 1 1 2 5	ioft Technology Licensing, LLC, a Washington limited liability company, on
	If and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous
	the entire and exclusive rights, title and interest, including the right of it is in the interest of the interest including the APPLICATION (and all other applications and patents
,	efrom, such as continuing applications, in whole or in part, in and for the
	, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known:

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Application No.	Filing Date	Office	*************************
15/613,372		US	
		and a second	

MS Docket No.: 356146.01

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Inventor's Signature

Date

Nissanka Arachchige Bodhi Priyantha

Printed Name in English

بر الادراق كالموري العراق العراق العراق العراق Printed Name in Native Language

MS Docket No.: 356146.01

(if other than English)

PATENT ASSIGNMENT MS Docket No.: 356146.01

inventor of subject matter ("	'INVENTION") disclosed a	•
application entitled "Suppressin	g Power Spikes" ("APPLICA"	ΠΟΝ"), which:
ASSIGNEE'S legal LLC., One Microsof LEGAL REPRESENT	ASSIGNOR hereby authorepresentative, Microsoft ft Way, Redmond, Washing ATIVES), to insert here and given Application	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed
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	plication No., filing date, ar	
14/617,719 by the Microsoft Technology Lic behalf of itself and its successor of acquiring, the entire and expriority, in the INVENTION and the derived therefrom, such as confunited States, its territories, and	s and assigns ("ASSIGNEE") clusive rights, title and in the APPLICATION (and all o tinuing applications, in wh I all foreign countries ("API	limited liability company, or, is entitled to, and is desirous terest, including the right of the applications and patents tole or in part, in and for the
to insert the Application No., f	iling date, and Office into	the following table for any
APPLICATION DERIVATIVES after		
Application No.		Office
15/613,372	06/05/2017	US

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

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J. A.:	02/23/2015
Inventor's Signature	Date
Anirudh Badam	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Thomas Moscibroda ("ASSIGNOR") am the original inventor or an original join
inventor of subject matter ("INVENTION") disclosed and/or claimed in a paten
application entitled "Suppressing Power Spikes" ("APPLICATION"), which:
will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on 02/09/2015 and given Application No. 14/617,719 by the following Office
was filed on and was given Application No by the following Office "
Microsoft Technology Licensing, LLC, a Washington limited liability company, or

Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office
4 <i>E</i> / <i>G</i> 49.979	: 06/05/2017	US

Page 1 of 2

MS Docket No.: <u>356146.01</u>

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")):

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T. Kesi bada	2/5/ 20/5
Inventor's Signature	Date
Thomas Moscibroda	
Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Pan Hu</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>Suppressing Power Spikes</u>" ("APPLICATION"), which:

will	be	filed.	ASSIGNOR	hereby	auth	orizes,	and	requ	iests,
ASSI	GNE	E'S legal	l representa	tive, Mic	rosoft	Techno	ology	Licen	sing,
LLC.	, On	e Micros	oft Way, Rec	lmond, W	ashing	ton 980)52 (<i>A</i>	۱SSIGI	VEE'S
LEGA	AL R	EPRESEN	NTATIVES),	to insert	here	in pai	renth	eses	(filed
on _	02/	09/201	5and g	iven Appl	ication	No. <u>1</u>	4/61	7,71	<u>9</u> by
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APPL	ICA ⁻	ΓΙΟΝ's A	pplication N	o., filing	date, a	nd Offi	ce, wh	ien kn	iown;
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"				, yy , ,					
	ASSI LLC. LEGA on _ the i APPL was	ASSIGNED LLC., One LEGAL R on _02/ the follow APPLICATION Was filed No	ASSIGNEE'S legal LLC., One Micros LEGAL REPRESEN on 02/09/201 the following Off APPLICATION's A was filed on	ASSIGNEE'S legal representa LLC., One Microsoft Way, Rec LEGAL REPRESENTATIVES), on _02/09/2015 and gi the following Office APPLICATION's Application N was filed on by the	ASSIGNEE'S legal representative, Mic LLC., One Microsoft Way, Redmond, W LEGAL REPRESENTATIVES), to insert on _02/09/2015 and given Appl the following Office US APPLICATION's Application No., filing was filed on and was No by the following	ASSIGNEE'S legal representative, Microsoft LLC., One Microsoft Way, Redmond, Washing LEGAL REPRESENTATIVES), to insert here on _02/09/2015 and given Application the following Office US	ASSIGNEE'S legal representative, Microsoft Technol LLC., One Microsoft Way, Redmond, Washington 980 LEGAL REPRESENTATIVES), to insert here in part on02/09/2015 and given Application No1 the following Office US	ASSIGNEE'S legal representative, Microsoft Technology LLC., One Microsoft Way, Redmond, Washington 98052 (A LEGAL REPRESENTATIVES), to insert here in parenthe on02/09/2015 and given Application No14/61 the following Office US APPLICATION's Application No., filing date, and Office, who was filed on and was given Application No by the following Office	No by the following Office

Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

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15/613,372	06/05/2017	US	

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Inventor's Signature

Pan Hu

Printed Name in English

Date

02/07/2015

MS Docket No.: 356146.01

Printed Name in Native Language (if other than English)

胡盼

	subject matter (,
application e	ntitled " <u>Suppressi</u> i	ng Power Spikes"	("APPLICAT	ION"), which:	
		representative, crosoft Way, GAL REPRESENT d on 02/09/2 517,719 US	Microsoft T Redmond, FATIVES), 1 2015 a by	Technology L Washington to insert nd given Ap the f this APPLIC	icensing, 98052 here in plication following
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behalf of its desirous of a right of prior patents deriv	soft Technology Licelf and its succe acquiring, the enti- rity, in the INVENTI red therefrom, suc- ted States, its if	ssors and assig re and exclusive ON and the APPI h as continuing	ns ("ASSIGN rights, title ICATION (a applications	NEE"), is enti e and interes nd all other a s, in whole or	tled to, and is t, including the pplications and in part, in and
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Application N	lo.	Filing Date		Office	
15/613,372		06/05/2017		US	
***************************************	***************************************				
		4			

I Anthony John Ferrese ("ASSIGNOR") am the original inventor or an original joint

Page 1 of 2

PATENT REEL: 042983 FRAME: 0632

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MS Docket No.: 356146.01

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		715/15	
Inventor's Signature	Date		
Anthony John Ferrese			
Printed Name in English	Printed Name in Native Language		
	(if other t	(if other than English)	

PATENT A	ASSIGNMENT	MS Docket No.: <u>356146.01</u>
I <u>Evangelia Skiani</u> ("ASS inventor of subject matter (application entitled " <u>Suppressin</u>	"INVENTION") disclosed	•
ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No. Office Application No., fi	ASSIGNOR hereby auth representative, Microsoft rosoft Way, Redmond, AL REPRESENTATIVES), I on by	Technology Licensing, Washington 98052 to insert here in and given Application the following) this APPLICATION's n known;
	censing, LLC, a Washington ssors and assigns ("ASSIO re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	tle and interest, including the (and all other applications and ns, in whole or in part, in and
ASSIGNOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAL
REPRESENTATIVES to insert the	• • • • • • • • • • • • • • • • • • • •	
following table for any APPLICA		
Application No.	Filing Date	Office
15/613,372	06/05/2017	US

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Bort	02/10/2015	
Inventor's Signature	Date	
Evangelia Skiani	Ευαγγελία Σκιάνη	
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

RECORDED: 07/12/2017