PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3237560

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the REPLACE SIGNATURE PAGE FOR INVENTOR ARULDEVI MUTHUKUMSARASAMY TO SHOW CORRECTED EXECUTION DATE FROM 01/25/2014 TO 01/25/2015 previously recorded on Reel 034835 Frame 0131. Assignor(s) hereby confirms the CORRECT EXECUTION DATE OF INVENTOR ARULDEVI MUTHUKUMSARASAMY IS 01/25/2015.

CONVEYING PARTY DATA

Name	Execution Date
HONGWEI ZHANG	09/22/2014
ARULDEVI MUTHUKUMSARASAMY	01/25/2015

RECEIVING PARTY DATA

Name:	MICROSOFT CORPORATION
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14217030

CORRESPONDENCE DATA

Fax Number:

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.

Email: arcelie.grapes@perkinscoie.com

Correspondent Name: PERKINS COIE LLP
Address Line 1: P.O. BOX 1247

Address Line 4: SEATTLE, WASHINGTON 98101

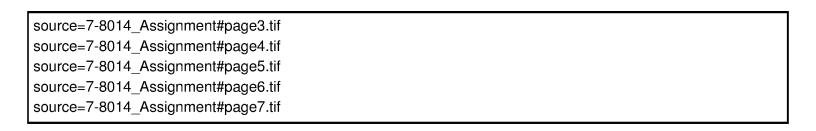
ATTORNEY DOCKET NUMBER:	041827-8014.US00	
NAME OF SUBMITTER:	MAURICE J. PIRIO	
SIGNATURE:	/Maurice J. Pirio/	
DATE SIGNED:	02/23/2015	

Total Attachments: 7

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> PATENT REEL: 035071 FRAME: 0172

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PATENT REEL: 035071 FRAME: 0173

503155721 01/28/2015

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
HONGWEI ZHANG	09/22/2014
ARULDEVI MUTHUKUMSARASAMY	01/25/2015
ASWIN GUNAWAN	10/27/2014

RECEIVING PARTY DATA

Name:	MICROSOFT CORPORATION	
Street Address:	ONE MICROSOFT WAY	
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14217030

CORRESPONDENCE DATA

Fax Number:

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: 206-583-8888

Email: patentprocurement@perkinscoie.com

Correspondent Name: PERKINS COIE LLP/MSFT

Address Line 1: P. O. BOX 1247

Address Line 4: SEATTLE, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER: 41827-8014.US00

NAME OF SUBMITTER: MAURICE J. PIRIO

SIGNATURE: /Maurice J. Pirio/

DATE SIGNED: 01/28/2015

Total Attachments: 6

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> PATENT REEL: 035071 FRAME: 0174

EPAS ID: PAT3202334

PATENT ASSIGNMENT

	PATENT ASSIGNMEN	MS Docket No.: 341348.01
inventor of subject matter (•
ASSIGNEE'S legal re Department, Micro Washington 98052 here in parenthese	ASSIGNOR hereby authors epresentatives, of the Law soft Corporation, One Mic (ASSIGNEE'S LEGAL REPRE es (filed on) this APPL	and Corporate Affairs crosoft Way, Redmond, ESENTATIVES), to insert and given by the following Office
No filing date. and	d Office, when known;	
<u>14/217,030</u> by the	GNEE"), is entitled to, and tle and interest, including TON (and all other appl applications, in whole or	n, on behalf of itself and its is desirous of acquiring, the g the right of priority, in the ications and patents derived in part, in and for the United
ASSIGNOR hereby REPRESENTATIVES to insert the following table for any APPLICA		g date, and Office into the
Application No.	Filing Date	Office
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Page 1 of 2

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).

Inventor's Signature Horgwei Zhang	Date 9/2 3/2014
Printed Name in English	Printed Name in Native Language (if other than English)
Hongwei Zhang	张汉伟

PATENT ASSIGNMENT MS Docket No.: 341348.01 I Aruldevi Muthukumsarasamy ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "FRAMEWORK FOR USER-MODE CRASH REPORTING" ("APPLICATION"), which: Will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on _____ and given by the following Office Application No.) this APPLICATION's Application No., filing date, and Office, when known; was filed on March 17, 2014 and was given Application No. 14/217.030 by the following Office "United States of America" Microsoft Corporation, a Washington Corporation, 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")); ASSIGNEE'S ASSIGNOR and requests. hereby authorizes, 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

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41827-8014.US00/LEGAL123481892.1

MS Docket No.: 341348.01

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).

Inventor's Signature M. And Divi	Date 2015 M.N. Jan 25, 314
Printed Name in English Aruldevi Muthukumsarasamy	Printed Name in Native Language (If other than English)

PATENT ASSIGNMENT

MS Docket No.: 341348.01

I <u>Aswin Gunawan</u> ("ASSIGNOR") am the inventor of subject matter ("INVENTION") di	-	
	USER-MODE CRASH REPORTING"	
("APPLICATION"), which:	OSEK MODE CRASH REPORTING	
(ACLEGATION), WINCH.	,	
ASSIGNEE'S legal representatives, or Department, Microsoft Corporation, Washington 98052 (ASSIGNEE'S LEG here in parentheses (filed onApplication No	One Microsoft Way, Redmond, AL REPRESENTATIVES), to insert and given	
No., filing date, and Office, when kn	own;	
CAMPACIAN CO.		
was filed on March 17, 2014 and was given Application No.		
14/217,030 by the following Office	<u>"United States of America"</u>	
Microsoft Corporation, a Washington Corporation, 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, an	d requests, ASSIGNEE'S LEGAL	
REPRESENTATIVES to insert the Application N		
following table for any APPLICATION DERIVATIVE	S after they are known;	
Application No. Filing Date	Office	
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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).

Inventor's Signature	10/27/2014
Printed Name in English	Printed Name in Native Language (If other than English)
Aswir Gunawan	