PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3134542

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ISSA Y. KHOURY	09/26/2014
DARREN RAY DAVIS	09/24/2014
PETTERI MIKKOLA	09/24/2014
ELIZABETH FAY THRELKELD	09/24/2014
KENTON ALLEN SHIPLEY	09/23/2014
KERI KRUSE MORAN	09/24/2014
RAMRAJPRABU BALASUBRAMANIAN	09/24/2014
PATRICK DERKS	09/24/2014

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:	14495355

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:docketing@cooperlegalgroup.comCorrespondent Name:COOPER LEGAL GROUP, LLC

Address Line 1: 6505 ROCKSIDE ROAD

Address Line 2: SUITE 330

Address Line 4: INDEPENDENCE, OHIO 44131

ATTORNEY DOCKET NUMBER:	355333.01
NAME OF SUBMITTER:	DAVID J. STEIN
SIGNATURE:	/David J. Stein/
DATE SIGNED:	12/05/2014
	PAIENI

503087937 REEL: 034388 FRAME: 0029

Total Attachments: 16		
source=Assignment#page1.tif		
source=Assignment#page2.tif		
source=Assignment#page3.tif		
source=Assignment#page4.tif		
source=Assignment#page5.tif		
source=Assignment#page6.tif		
source=Assignment#page7.tif		
source=Assignment#page8.tif		
source=Assignment#page9.tif		
source=Assignment#page10.tif		
source=Assignment#page11.tif		
source=Assignment#page12.tif		
source=Assignment#page13.tif		
source=Assignment#page14.tif		
source=Assignment#page15.tif		
source=Assignment#page16.tif		

PATENT REEL: 034388 FRAME: 0030

inventor of subje application entitle	ct matter ("INVENTION")	he original inventor or and disclosed and/or claimed DEVICE RESOURCES TO which:	d in a patent
ASSIG Depai Washi here i No	NEE'S legal representatives tment, Microsoft Corporatington 98052 (ASSIGNEE'S n parentheses (filed on by the following APPLICATION's Application	ereby authorizes, and r s, of the Law and Corporation, One Microsoft Way, Re LEGAL REPRESENTATIVES), and given Ap Office No., filing date, and Office	e Affairs edmond, to insert plication)
	led on and by the follo		
successors and assentire and exclusive solutions and the therefrom, such as States, its territorie ASSIGNOR here to insert the Applications.	signs ("ASSIGNEE"), is entity of rights, title and intereste APPLICATION (and all continuing applications, is, and all foreign countries areby authorizes, and requesters.	Corporation, on behalf of led to, and is desirous of t, including the right of pother applications and point whole or in part, in and ("APPLICATION DERIVATIVE ests, ASSIGNEE'S LEGAL REPORT of Office into the following on;	acquiring, the priority, in the atents derived for the United ES"));
Application No.	Filing Date	Office	
			And the second s

Page 1 of 2

MS Docket No.: <u>355333.01</u>

MS Docket No.: <u>355333.01</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"));

mosfry	9/26/2014
Inventor's Signature	Date
Issa Y. Khoury	
Printed Name in English	Printed Name in Native Language (if other than English)

TAILNI	ASSIGNMENT	MS Docket No.: <u>355333.01</u>
inventor of subject matter	("INVENTION") disclosed NG TARGET DEVICE RI	al inventor or an original joint and/or claimed in a patent ESOURCES TO HOST DEVICE
ASSIGNEE'S legal Department, Mic Washington 980! here in parentl Application N Office	ASSIGNOR hereby aut representatives, of the La rosoft Corporation, One Modern M	nw and Corporate Affairs Microsoft Way, Redmond, RESENTATIVES), to insert and given by the following this APPLICATION's
No	and was given by the following Offic ";	
successors and assigns ("ASSI entire and exclusive rights, ti NVENTION and the APPLICA	GNEE"), is entitled to, and tle and interest, includin FION (and all other app applications, in whole or	on, on behalf of itself and its d is desirous of acquiring, the g the right of priority, in the lications and patents derived in part, in and for the United TION DERIVATIVES"));
ASSIGNOR hereby REPRESENTATIVES to insert the insert to insert to insert the insert the insert to insert the insert	authorizes, and requive the Application No., filing TION DERIVATIVES after the terminal terminal terminal termination in the control of the c	g date, and Office into the
Application No.	Filing Date	Office

PATENT ASSIGNMENT MS Docket No.: 355333.01

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")):

Inventor's Signature	2-1 Sept 2017
Darren Ray Davis	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 355333.01

inventor of		sidivok /, ani the origina	d inventor or an original joint
	subject matter	("INVENTION") disclosed	and/or claimed in a patent
application	entitled "LENDI	NG TARGET DEVICE R	ESOURCES TO HOST DEVICE
COMPLITING	ENVIRONMENT" ("APPLICATION"), which:	ESCURCES TO HOST DEVICE
	EINVINOINIAILINI	APPLICATION I, WITCH	
	will be filed.	ASSIGNOR hereby aut	horizes, and requests,
		representatives, of the La	
		rosoft Corporation, One M	
		52 (ASSIGNEE'S LEGAL REP	
		heses (filed on	
		lo	_
	Application No.,	filing date, and Office, wh	en known;
	was filed on	and was given	Application
		by the following Offic	
			e
		".	
Micros	soft Corporation,	a Washington Corporation	on, on behalf of itself and its
successors a	nd assigns ("ASSI	GNEE"), is entitled to, and	d is desirous of acquiring, the
	1		_
entire and e	xclusive rights, ti	itle and interest, includin	g the right of priority, in the
entire and e	xclusive rights, ti and the APPLICA ⁻	itle and interest, includin TION (and all other app	g the right of priority, in the lications and patents derived
entire and e	and the APPLICA	TION (and all other app	lications and patents derived
entire and e INVENTION a therefrom, s	and the APPLICA ⁻ uch as continuing	TION (and all other app applications, in whole or	lications and patents derived in part, in and for the United
entire and e INVENTION a therefrom, s	and the APPLICA ⁻ uch as continuing	TION (and all other app	lications and patents derived in part, in and for the United
entire and e INVENTION a therefrom, s States, its ter	and the APPLICA uch as continuing ritories, and all fo	TION (and all other app applications, in whole or reign countries ("APPLICA"	lications and patents derived in part, in and for the United TION DERIVATIVES"));
entire and e INVENTION a therefrom, so States, its ter ASSIGI	and the APPLICA- uch as continuing ritories, and all fo NOR hereby	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL
entire and	and the APPLICA- uch as continuing ritories, and all fo NOR hereby FIVES to insert t	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filir	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL ag date, and Office into the
entire and	and the APPLICA- uch as continuing ritories, and all fo NOR hereby FIVES to insert t	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL ag date, and Office into the
entire and	and the APPLICA- uch as continuing ritories, and all fo NOR hereby FIVES to insert t	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filir	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL ag date, and Office into the
entire and	and the APPLICATUCH as continuing ritories, and all for NOR hereby FIVES to insert the for any APPLICATUCE	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filir	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL and Office into the hey are known;
entire and	and the APPLICATUCH as continuing ritories, and all for NOR hereby FIVES to insert the for any APPLICATUCE	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filin ATION DERIVATIVES after t	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL ag date, and Office into the
entire and	and the APPLICATUCH as continuing ritories, and all for NOR hereby FIVES to insert the for any APPLICATUCE	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filin ATION DERIVATIVES after t	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL and Office into the hey are known;
entire and	and the APPLICATUCH as continuing ritories, and all for NOR hereby FIVES to insert the for any APPLICATUCE	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filin ATION DERIVATIVES after t	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL and Office into the hey are known;
entire and	and the APPLICATUCH as continuing ritories, and all for NOR hereby FIVES to insert the for any APPLICATUCE	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filin ATION DERIVATIVES after t	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL and Office into the hey are known;
entire and	and the APPLICATUCH as continuing ritories, and all for NOR hereby FIVES to insert the for any APPLICATUCE	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filin ATION DERIVATIVES after t	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL and Office into the hey are known;
entire and	and the APPLICATUCH as continuing ritories, and all for NOR hereby FIVES to insert the for any APPLICATUCE	TION (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and req the Application No., filin ATION DERIVATIVES after t	lications and patents derived in part, in and for the United TION DERIVATIVES")); uests, ASSIGNEE'S LEGAL and Office into the hey are known;

MS Docket No.: <u>355333.01</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 NVENTION 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"));

252-	9-24-14
Inventor's Signature	Date
Petteri Mikkola	
Printed Name in English	Printed Name in Native Language
episees	(if other than English)

PATENT	ASSIGNMENT	MS Docket No.: <u>355333.01</u>
joint inventor of subject matt	er ("INVENTION") disclose NG TARGET DEVICE RE	original inventor or an original ed and/or claimed in a patent SOURCES TO HOST DEVICE
ASSIGNEE'S legal Department, Micro Washington 9805 here in parenth Application No Office Application No., f was filed on No Microsoft Corporation, successors and assigns ("ASSIG	GNEE"), is entitled to, and	w and Corporate Affairs licrosoft Way, Redmond, RESENTATIVES), to insert and given by the following _) this APPLICATION's en known; Application e n, on behalf of itself and its I is desirous of acquiring, the
entire and exclusive rights, time INVENTION and the APPLICAT therefrom, such as continuing States, its territories, and all for	TION (and all other appl applications, in whole or	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

MS Docket No.: <u>355333.01</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"));

Elizabeth Fay Thre	theld 09/24/14
Inventor's Signature \cup	Date
Elizabeth Fay Threlkeld	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: <u>355333.01</u> I, Kenton Allen Shipley, ("ASSIGNOR"), am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled " LENDING TARGET DEVICE RESOURCES TO HOST DEVICE COMPUTING ENVIRONMENT" ("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 Application No. ______ by the following Office _______) this APPLICATION's Application No., filing date, and Office, when known; was filed on _____ and was given Application No ______ by the following Office 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, 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

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).

Juty a Slipley Inventor's Signature	9/23/2014 Date
Kenton Allen Shipley	
Printed Name in English	Printed Name in Native Language (if other than English)

MS Docket No.: 355333.01

I <u>, Keri</u>	Kruse Moran, ("AS	SSIGNOR"), am the origina	d inventor or an original joint
inventor of	subject matter ("INVENTION") disclosed	and/or claimed in a patent
application	entitled " <u>LENDIN</u>	G TARGET DEVICE RE	SOURCES TO HOST DEVICE
COMPUTING	FNVIRONMENT" ("A	APPLICATION"), which:	
\boxtimes	will be filed.	ASSIGNOR hereby auth	orizes, and requests,
		representatives, of the Lav	
	-	osoft Corporation, One M	•
	•	2 (ASSIGNEE'S LEGAL REPR	• • • • • • • • • • • • • • • • • • • •
	_	eses (filed on	• •
	Application No		by the following
	Office		
		ling date, and Office, whe	
	was filed on	and was given	Application
	No	by the following Office	· <u>2</u>
	"		
successors a entire and e INVENTION therefrom, s	and assigns ("ASSIC exclusive rights, til and the APPLICAT uch as continuing	GNEE"), is entitled to, and tle and interest, including TON (and all other appl	n, on behalf of itself and its is desirous of acquiring, the gethe right of priority, in the ications and patents derived in part, in and for the United TION DERIVATIVES"));
۸۶۶۱۵	NOP hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAL
	•		g date, and Office into the
		TION DERIVATIVES after the	-
ronowing tax	ne for any har blen	THOIR DEMINATIVES after a	icy are known,
Application 1		Filing Date	Office

Page 1 of 2

MS Docket No.: <u>355333.01</u>

MS Docket No.: <u>355333.01</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"));

H-M	9/24/14	
Inventor's Signature	Date	
Keri Kruse Moran		
Printed Name in English	Printed Name in Native Language (if other than English)	

	PATENT	ASSIGNMENT	MS Docket No.: <u>355333.01</u>
original join	t inventor of subje	ect matter ("INVENTION")	m the original inventor or ar disclosed and/or claimed in a RESOURCES TO HOST DEVICE
COMPUTING	ENVIRONMENT" ("/	APPLICATION"), which:	
	ASSIGNEE'S legal Department, Micro Washington 9805 here in parenthese No b	ASSIGNOR hereby authorepresentatives, of the Lavosoft Corporation, One Mice (ASSIGNEE'S LEGAL REPRES (filed on) the following Office''s Application No., filing	w and Corporate Affairs crosoft Way, Redmond, ESENTATIVES), to insert and given Application)
		and was given a by the following Office ";	
successors a entire and e NVENTION a cherefrom, su States, its ter ASSIGN to insert the	nd assigns ("ASSIC xclusive rights, tit and the APPLICAT uch as continuing a ritories, and all for NOR hereby authori	NEE"), is entitled to, and le and interest, including ION (and all other appliapplications, in whole or eign countries ("APPLICATIOES, and requests, ASSIGN filing date, and Office into	is desirous of acquiring, the the right of priority, in the cations and patents derived in part, in and for the United ON DERIVATIVES")); EE'S LEGAL REPRESENTATIVES the following table for any
Application	No.	Filing Date	Office

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).

B. Ramnej Medru	91 24/2014
Inventor's Signature	Date
Ramrajprabu Balasubramanian	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 355333.01

inventor of application	subject matter (entitled " <u>LENDI</u>	("INVENTION") disclosed	inventor or an original joint and/or claimed in a patent SOURCES TO HOST DEVICE
	ASSIGNEE'S legal Department, Micr Washington 9805 here in parenthese Nob	ASSIGNOR hereby authorepresentatives, of the Law osoft Corporation, One M 2 (ASSIGNEE'S LEGAL REPR es (filed on	w and Corporate Affairs icrosoft Way, Redmond, ESENTATIVES), to insert and given Application
	No	and was given by the following Office ";	
successors a entire and e INVENTION a therefrom, so States, its ter ASSIGI to insert the	nd assigns ("ASSIC xclusive rights, tit and the APPLICAT uch as continuing ritories, and all for NOR hereby author	ENEE"), is entitled to, and all and interest, including TON (and all other applications, in whole or reign countries ("APPLICAT izes, and requests, ASSIGN filing date, and Office int	is desirous of acquiring, the state of the right of priority, in the cations and patents derived in part, in and for the United ION DERIVATIVES")); SEE'S LEGAL REPRESENTATIVES to the following table for any
Application	No.	Filing Date	Office

Page 1 of 2

MS Docket No.: <u>355333.01</u>

MS Docket No.: <u>355333.01</u>

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR nereby 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).

JA Deska	SEPT 24, 2014
Inventor's Signature	Date
Patrick Derks	
Printed Name in English	Printed Name in Native Language (if other than English)

RECORDED: 12/05/2014