PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2747502

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANTONIO CRIMINISI	02/26/2014
HENRIK TURBELL	02/26/2014
ADRIANA DUMITRAS	02/27/2014
PUSHMEET KOHLI	02/26/2014
PETER KONTSCHIEDER	02/28/2014
JAMIE DANIEL JOSEPH SHOTTON	02/26/2014
DUNCAN PAUL ROBERTSON	02/28/2014
INDEERA MUNASINGHE	02/27/2014

RECEIVING PARTY DATA

Name:	MICROSOFT CORPORATION	
Street Address:	NE MICROSOFT WAY	
City:	REDMOND	
State/Country:	VASHINGTON	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14193079

CORRESPONDENCE DATA

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Address Line 4: WOODBRIDGE, VIRGINIA 22192

PATENT REEL: 032373 FRAME: 0295

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ATTORNEY DOCKET NUMBER:	341326.01
NAME OF SUBMITTER:	MACLANE C. KEY
Signature:	/MacLane C. Key/
Date:	02/28/2014
Total Attachments: 16	
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PATENT REEL: 032373 FRAME: 0296

	PATENT	ASSIGNMENT	MS Docket No.:	341326.01_
inventor of	subject matter (SSIGNOR") am the originvENTION") disclosed	i and/or claimed	in a patent
	ASSIGNEE'S legal Department, Micro Washington 9805 here in parenth Application N Office USPTO	ASSIGNOR hereby aurepresentatives, of the I osoft Corporation, One 2 (ASSIGNEE'S LEGAL REeses (filed on $\frac{2-28}{3}$, $\frac{14/193}{193}$, 079	Law and Corporate / Microsoft Way, Redi PRESENTATIVES), to -14 and by the foll this APPLICAT	Affairs mond, insert given owing
	was filed on	and was give	in Application	
	No	by the following Off	ice	
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successors a entire and e INVENTION therefrom, s	nd assigns ("ASSI) xclusive rights, ti and the APPLICAT uch as continuing	a Washington Corporat CNEE"), is entitled to, a tle and interest, includ TON (and all other ap applications, in whole of reign countries ("APPLIC	nd is desirous of a ing the right of pri oplications and pate or in part, in and fo	equiring, the ority, in the ents derived or the United
ASSIG	NOR hereby	authorizes, and re	guests, ASSIGNE	e's legal
		ne Application No., fil		
following tab	ile for any APPLICA	TION DERIVATIVES after	they are known;	
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MS Docker No.: 341326.01

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"));

	Attain Caring	26/02/2014
***************************************	Inventor's Signature	Date
******	Antonio CRIMINISI	
	Printed Name in English	Printed Name in Native Language (if other than English)

I Adriana DUMITRAS ("ASSIGNOR") am the original inventor or an original joint

inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent

application entitled "DEPTH SEN	ISING USING AN RGB CAM	ERA" ("APPLICATION"), which:
ASSIGNEE'S legal of Department, Microby Washington 9805 here in parenth Application Notice USPTC	ASSIGNOR hereby authorepresentatives, of the Labosoft Corporation, One M2 (ASSIGNEE'S LEGAL REPleses (filed on $\frac{2-28-6}{14/193,079}$) Iting date, and Office, which	w and Corporate Affairs licrosoft Way, Redmond, RESENTATIVES), to insert -14 and given by the following _) this APPLICATION's
was filed on	and was given	Application
	by the following Offic	
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entire and exclusive rights, till INVENTION and the APPLICAT therefrom, such as continuing States, its territories, and all following table for any APPLICAT following table for any APPLICATION.	tle and interest, including TON (and all other app applications, in whole or reign countries ("APPLICA" authorizes, and reque application No., filling TION DERIVATIVES after the control of the countries of the countries after the countries and control of the countries after the countries and countries after the countries after the countries after the countries after the countries and countries after the countries and countries after the count	juests, ASSIGNEE'S LEGALing date, and Office into the hey are known;
Application No.	Filing Date	Office

Page 1 of 2

MS Docket No.: 341326.01

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")):

Allmary	27 1993 2014
Inventor's Signature	Date
Adriana DUMITRAS	ADRIANA DUMIMAS
Printed Name in English	Printed Name in Native Language
	(if other than English)

l <u>Pus</u>	hmeet KOHLI ("ASSIGNOR") am the original inventor or an original jo	oint
inventor of	subject matter ("INVENTION") disclosed and/or claimed in a pat	ent
application e	entitled "DEPTH SENSING USING AN RGB CAMERA" ("APPLICATION"), which	h:
\boxtimes	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 $\frac{2-28-14}{}$ and given	
	Application No. $14/193,079$ by the following	
	Office USPTO this APPLICATION's	
	Application No., filing date, and Office, when known;	
	, , , , , , , , , , , , , , , , , , , ,	
	was filed on and was given Application	
	No by the following Office	
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Micro	soft Corporation, a Washington Corporation, on behalf of itself and	its
	and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring,	
	exclusive rights, title and interest, including the right of priority, in	
	and the APPLICATION (and all other applications and patents deri	
	uch as continuing applications, in whole or in part, in and for the Uni	
	rritories, and all foreign countries ("APPLICATION DERIVATIVES"));	ccu
Juices, its ter	mones, and an ionagh countries (An Electron Denivatives),,	
ASSIG	NOR hereby authorizes, and requests, ASSIGNEE'S LEC	GAL
	TIVES to insert the Application No., filing date, and Office into	
	ole for any APPLICATION DERIVATIVES after they are known;	
	TOTAL CO.	
	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).

William	26-02-2014
Inventor's Signature	Date
Pushmeet KOHLI	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Peter KONTSCHIEDER ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DEPTH SENSING USING AN RGB CAMERA" ("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 $\frac{2-28-14}{}$ and given 14/193,079 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")); authorizes, ASSIGNOR : hereby and reauests. 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

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).

	FB 28, 2014
Ínventor's Signature	Date
Peter KONTSCHIEDER	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT	ASSIGNMENT	MS Docket No.: 341326.01
joint inventor of subject matt	er ("INVENTION") dis	ne original inventor or an origina closed and/or claimed in a paten CAMERA" ("APPLICATION"), which:
Will be filed. ASSIGNEE'S legal Department, Micro Washington 980S here in parenth Application N Office USPT	ASSIGNOR hereby representatives, of the cosoft Corporation, O 2 (ASSIGNEE'S LEGAL sees (filed on 2 0. 14/193.079	authorizes, and requests, ne Law and Corporate Affairs ne Microsoft Way, Redmond, REPRESENTATIVES), to insert -28-14 and given by the following this APPLICATION's
was filed on	and was s	iven Application
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successors and assigns ("ASSI entire and exclusive rights, t INVENTION and the APPLICA"	GNEE"), is entitled to itle and interest, incl FION (and all other applications, in who	ration, on behalf of itself and its , and is desirous of acquiring, the juding the right of priority, in the applications and patents derived le or in part, in and for the United LICATION DERIVATIVES"));
		requests, ASSIGNEE'S LEGAL
REPRESENTATIVES to insert 1 following table for any APPLICA		filing date, and Office into the fter they are known:
Application No.	Filing Date	Office

MS Docket No.: 341326.01

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"));

\$	and the second s	27-02-2014	
Inventor's	Signature	Date	
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Printed Nar	ne in English	Printed Name in Native Language	
		(if other than English)	

joint invento	or of subject mat	ter ("INVENTION") di	n the original inventor or an or isclosed and/or claimed in a p <u>NFRARED CAMERA</u> " ("APPLICATI	aten
	ASSIGNEE'S legal Department, Mic Washington 980 here in parent Application 1 Office USPTC	representatives, of the rosoft Corporation, (SEC) (ASSIGNEE'S LEGA) theses (filed on $\frac{2}{14/193}$, 07	the Law and Corporate Affairs One Microsoft Way, Redmond, L REPRESENTATIVES), to insert -28-14 and given 9 by the following this APPLICATION's e, when known;	
	was filed on	and was	given Application	
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successors a entire and e INVENTION : therefrom, si States, its ter ASSIGI REPRESENTAT	nd assigns ("ASS xclusive rights, the second the APPLICA uch as continuing ritories, and all for the second	iGNEE"), is entitled to itle and interest, inc TION (and all other papplications, in who preign countries ("APF authorizes, and the Application No.,	oration, on behalf of itself and o, and is desirous of acquiring cluding the right of priority, in applications and patents de ole or in part, in and for the UPLICATION DERIVATIVES")); requests, ASSIGNEE'S Lifting date, and Office into	i, the rivec nited EGAL
following tab	le for any APPLIC	ATION DERIVATIVES a	ifter they are known;	
Application N	io.	Filing Date	Office	
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Page 1 of 2

MADERIOLATION CANADASTIC	MS	IS Docket	No.:	341261.0	1
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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).

Duncan Paul ROBERTSON
Printed Name in English

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Printed Name in English

Oute

(if other than English)

PATENT ASSIGNMENT MS Docket No.: 341261.01

Llamaia Damial	Jacomb SUOTTON ("ACCICNOD"\	- 46
	•		n the original inventor or an
	<u> </u>		lisclosed and/or claimed in a
		SENSING USING	G AN INFRARED CAMERA"
("APPLICATION"), whic	n:		
ASSIGNE Departm Washing here in Applicati US –	E'S legal representation, Microsoft Corportion 98052 (ASSIGNE parentheses (filed ion No. 14/193,079 United States Pa	cives, of the Law oration, One Mid E'S LEGAL REPRI on <u>February</u> tent and Tra	orizes, and requests, wand Corporate Affairs crosoft Way, Redmond, ESENTATIVES), to insert 28, 2014 and given by the following Office ademark Office) this te, and Office, when
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successors and assign entire and exclusive INVENTION and the	ns ("ASSIGNEE"), is e rights, title and int APPLICATION (and ontinuing application	entitled to, and erest, including all other appli ns, in whole or	n, on behalf of itself and its is desirous of acquiring, the the right of priority, in the cations and patents derived in part, in and for the United ION DERIVATIVES"));
	• •	tion No., filing	lests, ASSIGNEE'S LEGAL g date, and Office into the ey are known;
Application No.	Filing Dat		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"));

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Inventor's Signature

Date

Date

Jamie Daniel Joseph SHOTTON

Printed Name in English

Printed Name in Native Language (if other than English)

raien	ASSIONMENT	MS Docket No.: 341326.01
inventor of subject matter	("INVENTION") disclosed	al inventor or an original joint and/or claimed in a patent MERA" ("APPLICATION"), which:
 Will be filed. ASSIGNEE'S lega Department, Min Washington 980 here in parent Application USP Office USP 	ASSIGNOR hereby autorises and large sentatives, of the Large sentative	thorizes, and requests, aw and Corporate Affairs Microsoft Way, Redmond, PRESENTATIVES), to insert -14 and given by the following this APPLICATION's
	and was giver by the following Office ;	
successors and assigns ("ASS entire and exclusive rights, t NVENTION and the APPLICA	IGNEE"), is entitled to, and itle and interest, including TION (and all other apportable of the properties of the control of the properties of the propertie	on, on behalf of itself and its dis desirous of acquiring, the growing the right of priority, in the elications and patents derived in part, in and for the United TION DERIVATIVES"));
ASSIGNOR hereby SEPRESENTATIVES to insert of collowing table for any APPLICATION APPLICATI	authorizes, and require the Application No., filing STION DERIVATIVES after t	ng date, and Office into the
Application No.	Filing Date	Office
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MS Docket No.: 341326.01

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	Feb 26, 2014
Inventor's Signature	Date
Henrik TURBELL	
Printed Name in English	Printed Name in Native Language (if other than English)