505186712 11/12/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5233481

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADAM THOMAS MOLLIS	02/12/2018
BRENDAN MITCHEL WALSH	02/12/2018
GEORGE VALAVANIS	02/12/2018
INES KHELIFI	02/12/2018
JONATHAN A. ADAMS	02/12/2018
LAURENTIU TITI NEDELCU	02/12/2018
AHMED RAOUF MEROUCHE	02/09/2018
SOURABH BANSAL	02/12/2018
SUNG-HON WU	02/16/2018
STACEY W.Y. LAW	02/12/2018
TED T. CHEN	02/12/2018

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:	15901801

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: usdocket@microsoft.com
Correspondent Name: NEWPORT IP, LLC

Address Line 1: 1400 112TH AVE SE, SUITE 100
Address Line 4: BELLEVUE, WASHINGTON 98004

ATTORNEY DOCKET NUMBER: MS1-9155US

PATENT REEL: 048101 FRAME: 0508

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NAME OF SUBMITTER:	PAOLA SEVERICH				
SIGNATURE:	/Paola Severich/				
DATE SIGNED:	11/12/2018				
Total Attachments: 22					
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PATENT REEL: 048101 FRAME: 0509

I Adam Thomas MOLLIS ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS" ("APPLICATION"), which:

⊠ will be	filed. ASSIGNOR hereby authorizes, and reque	ests
	egal representative, Microsoft Technology Licens	
LLC., One	Microsoft Way, Redmond, Washington 98	052
(ASSIGNEE'S	LEGAL REPRESENTATIVES), to insert here	ir
parentheses	(filed on and given Applica	tior
	by the following Office <u>US - United St</u>	
Patent and T	rademark Office) this APPLICATION's Application i	No.
filing date, a	nd Office, when known;	
☐ was filed	on and was given Application No _ by the	
	ice " <u>US – United States Patent and Trademark Offic</u>	g";
soft Technolog	yy Licensing, LLC, a Washington limited liability co	mpa

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
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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).

Adam Thomas MOLLIS

Printed Name in English

Adam Character of the Printed Name in Native Language

(if other than English)

Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

I <u>Brendan Mitchel WALSH</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS"</u> ("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 and given Application
No by the following Office <u>US – United States</u>
Patent and Trademark Office) this APPLICATION's Application No.,
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Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

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Date

Brendan Mitchel WALSH

Printed Name in English

Printed Name in Native Language
(if other than English)

Client Docket No.: <u>403551-US-NP</u> Attorney Docket No.: <u>MS1-9155US</u>

I <u>George VALAVANIS</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS" ("APPLICATION"), which:</u>

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Inventor's Signature	2/12/18 Date
George VALAVANIS	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Ines KHELIFI</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS</u>" ("APPLICATION"), which:

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2	2/12/18
Inventor's Signature	Date
Ines KHELIFI	
Printed Name in English	Printed Name in Native Language
	(if other than English)

Client Docket No.: 403551-US-NP

Attorney Docket No.: MS1-9155US

I Jonathan A. ADAMS ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS" ("APPLICATION"), which:

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Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

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Inventor's Signature Date

Jonathan A. ADAMS

Printed Name in English Printed Name in Native Language
(if other than English)

I <u>Laurentiu Titi NEDELCU</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS"</u> ("APPLICATION"), which:

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oft Technology Heensing TTC a Washington United liability compa

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Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

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Inventor's Signature

Laurentiu Titi NEDELCU

Printed Name in English

02/12/2018

Date

Lourentin Titi NENELCU

Printed Name in Native Language

(if other than English)

Client Docket No.: <u>403551-US-NP</u> Attorney Docket No.: <u>MS1-9155US</u>

I <u>Ahmed Raouf MEROUCHE</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS"</u> ("APPLICATION"), which:

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Inventor's Signature

02/09/2018

Doto

Ahmed Raouf MEROUCHE

Printed Name in English

Printed Name in Native Language

(if other than English)

Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

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Microsoft V	Vay, Redmond,	Washington 98052
LEGAL REP	RESENTATIVES),	to insert here in
(filed on		and given Application
by th	e following Offic	ce <u>US – United States</u>
<u>rademark Offi</u>	ce) this APPLICAT	FION's Application No.,
on and wa	ıs given Applicatio	on No_by the
ice " <u>US - Unite</u>	d States Patent a	nd Trademark Office";
	Microsoft V LEGAL REP (filed on by the rademark Offind office, whe on and wa	egal representative, Microsoft  Microsoft Way, Redmond,  LEGAL REPRESENTATIVES),  (filed on

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"));

Application No.	Filing Date	Office

Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

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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"));

Pandr Brigal	2/12/2013
lylventor's Signature	Date
Sourabh BANSAL Printed Name in English	Printed Name in Native Language (if other than English)

Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

I <u>Sung-Hon WU</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS" ("APPLICATION"), which:</u>

☐ will be filed. ASSIGNOR hereby	y authorizes, and requests.
ASSIGNEE'S legal representative, Micr	
LLC., One Microsoft Way, Redn	nond, Washington 98052
(ASSIGNEE'S LEGAL REPRESENTATIV	VES), to insert here in
parentheses (filed on	and given Application
No by the following	
Patent and Trademark Office) this API	PLICATION's Application No.,
filing date, and Office, when known;	
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U was filed on and was given App	
following Office " <u>US - United States Pa</u> t	tent and Trademark 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"));

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	
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Page 1 of 2

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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"));

Inventor's Signature	<u> </u>
Sung-Hon WU	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Stacey W.Y. LAW</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS" ("APPLICATION"), which:</u>

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 and given Application										
No by the following Office <u>US - United States</u>										
Patent and Trademark Office) this APPLICATION's Application No.,										
filing date, and Office, when known;										
was filed on and was given Application No _ by the										
following Office " <u>US – United States Patent and Trademark Office</u> ";										

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"));

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).

Inventor's signature

Stacey W.Y. LAW

Printed Name in English

Date

Printed Name in Native Language (if other than English)

Client Docket No.: 403551-US-NP Attorney Docket No.: MS1-9155US

I <u>Ted T. CHEN</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>DIGITAL AUDIO PROCESSING SYSTEM FOR ADJOINING DIGITAL AUDIO STEMS BASED ON COMPUTED AUDIO INTENSITY/CHARACTERISTICS" ("APPLICATION"), which:</u>

will be filed. ASSIGNOR hereby authorizes, and requests,

	LLC., One ( (ASSIGNEE'S I	Microsoft Way, Red LEGAL REPRESENTAT	IVES), to insert here	8052 e in
			and given Applic	
			ig Office <u>US – United S</u>	
			PLICATION's Application	⊦ No.,
	filing date, and	Office, when known;		
	☐ was filed or	1 and was given Ap	inlication No., by the	
			atent and Trademark Offi	<u>ce</u> ";
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following tab	ole for any APPLIC	the Application No. CATION DERIVATIVES a	, filing date, and Offic fter they are known:	e into the
Application N		Filing Date	Office	
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Client Docket No.: 403551-US-NP

Attorney Docket No.: MSI-9155US

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	2/12/18
Inventor' Signature	Date
Ted T. CHEN	
Printed Name in English	Printed Name in Native Language
	(if other than English)