503597906 12/04/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3644536

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PONTUS CARLSSON	01/02/2013
ANDREI JEFREMOV	01/17/2013
SERGEY SILKIN	12/27/2012
DAVID ZHAO	12/21/2012

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:	14960017			

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.

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Email: usdocket@microsoft.com

WOLFE-SBMC **Correspondent Name:**

Address Line 1: 601 W. MAIN AVENUE

Address Line 2: **SUITE 1300**

Address Line 4: SPOKANE, WASHINGTON 99201

ATTORNEY DOCKET NUMBER:	336078.03		
NAME OF SUBMITTER: MARK F. NIEMANN, REG#61,817			
SIGNATURE:	/Mark F. Niemann/		
DATE SIGNED:	12/04/2015		

Total Attachments: 8

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> **PATENT REEL: 037218 FRAME: 0672** 503597906

PATENT REEL: 037218 FRAME: 0673

PATENT ASSIGNMENT MS Docket No.: 336078.02

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Pontus Carisson ("Al	SSIGNOR") am the origin	ial inventor o	r an original join!
inventor of subject matter	("INVENTION") disclose	d and/or cla	med in a patent
application entitled "Estimatic	ig Quality of a Video Sign	aj" ("APPLICAT	ION"), which:
ASSIGNEE'S lega Department, Mi	ASSIGNOR hereby and representatives, of the crosoft Corporation, One 152 (ASSIGNEE'S LEGAL RI	Law and Corp Microsoft Way	orate Affairs 7. Redmond.
	theses (filed on		and the district of the first of the West National Control of the
	No	and the second of the second o	following
	filling date, and Office, w		
Trademark Offic	, a Washington Corpora SiGNEE"), is entitled to, a litle and interest in the I and patents derived United States, its terri	tion, on beha and is desirou NVENTION and therefrom, su	If of itself and its s of acquiring, the I the APPLICATION ICh as continuing
ASSIGNOR hereby REPRESENTATIVES to insert following table for any APPLIC		iling date, ar	id Office into the
Application No.			
14/960,017	5	,	

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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES):

MS Docket No.: 336078.02

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).

Paro al	Jan 2, 2013
Inventor's Signature	Date
Pontus Carlsson	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No. 336078-02

	4 2 4 2 2 2 2 2 2 2	3 8636.6301.43.436.4.4	1180 License 140. miniministra
i <u>And</u>	<u>rei lefremov</u> ("AS:	SICNOR") am the origin	al inventor or an original joint
inventor of	subject matter	("INVENTION") disclosed	l and/or claimed in a patent
application e	ntitled " <u>Estimating</u>	ı Quality of a Video Signi	ti" ("APPLICATION"), which:
	ASSIGNEE'S legal Department, Mici Washington 9805 here in parenti Application N Office Application No., i was filed on Octo	representatives, of the trosoft Corporation, One 2 (ASSIGNEE'S LEGAL REneses (filed on) this APPLICATION's hen known;
	Trademark Office		MILLER WARREN WARRING WITH
successors a entire and e (and all oti applications	ind assigns ("ASSI xclusive rights, til her applications	GNEE"), is entitled to, a die and interest in the IN and patents derived t United States, its territe	ion, on behalf of itself and its nd is desirous of acquiring, the iVENTION and the APPLICATION herefrom, such as continuing ories, and all foreign countries
	일본(1211년) 등 대한 시간 (111년)	그렇게 하다면 하면 하는 사람이 가게 되었다. 그 나를 살아 없다.	equests. ASSIGNEE'S LEGAL ling date, and Office into the
following tal	ole for any APPLICA	NTION DERIVATIVES after	they are known;
Application I	¥0.	Filing Date	Office
14/960,017		December 4, 2015	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 in the INVENTION and the APPLICATION (and 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).

17,012013

Inventor's Signature

Date

Andrei Jefremov

ANDREI JEFREMOV

MS Docket No.: 336078.02

Printed Name in English

Printed Name in Native Language (if other than English)

MS Docket No.: 336078.02

***************************************	ឮ ("ASSIGNOR") an	the state of the s	and the second of the second of the second		Date Control of the C
of subject matter					it application
entitled " <u>Estimating</u>	Quality of a Video	o Signal" ("APPI	LICATION"),	which:	

will	be	filed.	A5SI	GNOR	heret	y aut	horize	s, and	i rec	juests,
ASSI	GNE	E'S lega	al repre	sentati	ves, o	f the La	ıw anı	i Corpo	mate.	Affairs
Depa	artm	ent, Mi	crosoft	Corpo	ration,	One N	dicros	oft Way	ı, Red	mond,
Wasi	hingt	on 980)52 (AS	SIGNEE	"s leg	al rep	RESEN	TATIVE	S), to	insert
here	183	paren	theses	(filed	on "			mmmmi.	and	given
App	licati	on	No.				by	the	fol	lowing
Offic	. 9			***************************************) th	is API	² LICA	TION's
Appl	icati	on No.	, filling	date, a	nd Off	ice, wh	en kni	own,		

was filed on October 24, 2012 and was given Application No 13/659,573 by the following Office "United States Patent and Trademark 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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")):

ASSICNOR 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
14/960,017	December 4, 20	15 US

INVENTION and the APPLICATION (and APPLICATION DERIVATIVES):

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 in the

MS Docket No.: 336078.02

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).

	24 December 2012	
Inventor's Signature	Date	
Sergey Silkin	CEPPEG CURRUN	
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

PATENT ASSIGNMENT MS Docket No.: 336078.02

I <u>David Zhao</u> ("ASSIGNO	18") am the original inve	entor or an original joint inventor
of subject matter ("INVENTIC	DN") disclosed and/or	claimed in a patent application
entitled "Estimating Quality of	<u>a Video Signal</u> " ("APPLIC	'ATION"), which:
\$	Section (amount for the section)	AN
		uthorizes, and requests,
그 그래요 얼마 되는 그래요		Law and Corporate Affairs
	하기를 보고 있는 경우를 가고 하는데 하는데 하는데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른	: Microsoft Way, Redmond,
		EPRESENTATIVES), to insert
		and given
	lo.	by the following
Application No.,	filing date, and Office, v	vhen known;
X was filed on Qcts	ber 24, 2012 and was o	given Application
No _13/659,573	by the following Office	" United States Patent and
Trademark Office		
Microsoft Corporation,	a Washington Corpora	tion, on behalf of itself and its
successors and assigns ("ASSI	CNEE"), is entitled to, a	and is desirous of acquiring, the
		NVENTION and the APPLICATION
		therefrom, such as continuing
applications, in and for the	United States, its terri	tories, and all foreign countries
("APPLICATION DERIVATIVES"))	n jakus und 1900 – Archista er bereit i det state er bei den samme Rije Rije	e de la composition de la composition La composition de la
ASSIGNOR hereby	authorizes, and r	equests, ASSIGNEE'S LEGAL
REPRESENTATIVES to insent	the Application No., f	iling date, and Office into the
following table for any APPLIC	ATION DERIVATIVES afte	r they are known;
Application No.	Filing Date	Office
14/960,017	December 4, 2015	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 in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

MS Docket No.: 336078.02

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).

	21/12 2012
Inventor's Signature	Date 1
David Zhao	
Printed Name in English	Printed Name in Native Language (if other than English)