502641879 01/17/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2688487

01/17/2014

SUBMISSION TYPE:	MISSION TYPE: NEW ASSIGNMENT					
NATURE OF CONVEYANCE:	ASSIGNMENT					
CONVEYING PARTY DATA						
Name Execution Date						
BART DE SMET	01/17/2014					
TIHOMIR T. TARNAVSKI	01/17/2014					

RECEIVING PARTY DATA

SAVAS PARASTATIDIS

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:	14158680

CORRESPONDENCE DATA

Fax Number:

Phone: 425-707-9382

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Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: MICROSOFT CORPORATION
Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	340557.01
NAME OF SUBMITTER:	DAVID W. GRILLO
Signature:	/David W. Grillo/
Date:	01/17/2014

502641879 REEL: 032000 FRAME: 0367

Total Attachments: 6

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PATENT REEL: 032000 FRAME: 0368

PATENT ASSIGNMENT

I Bart De Smet ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "LIGHTWEIGHT OPTIONALLY TYPED DATA REPRESENTATION OF

MS Docket No.: 340557.01

COMPUTATION	ON" ("APPLICATIOI	N"), which:				
\boxtimes	will be filed.	ASSIGNOR	hereby	authorizes,	and r	equests,
	ASSIGNEE'S legal	representati	ves, of th	ie Law and C	orporate	e Affairs
	Department, Mic					
	Washington 980				-	
	here in parent					
	Application No					
	States Patent					
	Application No.,	filing date, ar	nd Office	, when knowi	3;	
	was filed on		ınd was g	iven Applicat	tion	
	No					
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Micros	oft Corporation,	a Washingto	n Corpo	ration, on b	ehalf of	itself a
	nd assigns ("ASSI					
	xclusive rights, t					
	and the APPLICA				-	-

Mic end its successor g, the entire and in the INVENTIO 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).

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	1/17/2014
	1/17/2014
Inventor' <del>s Signatu</del> re	Date
Bart De Smet	
Printed Name in English	Printed Name in Native Language
	(if other than English)

## PATENT ASSIGNMENT

MS Docket No.: 340557.01

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invento	r of	sub	ject	matte	r ("INVE	NTION")	discl	osed a	and/or	claimed	in a	pat	ent
applicat	ion	entit	:led '	"LIGHT	WEIGHT	OPTION	ALLY	TYPED	DATA	REPRESE	NTAT	NOF	OF
COMPU	TAT	ON"	("APP	LICATI	ON"), wh	ich:							

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will be filed. ASSIGNOR hereby authorizes, and requests	ŝ,
ASSIGNEE'S legal representatives, of the Law and Corporate Affair	'S
Department, Microsoft Corporation, One Microsoft Way, Redmond	Í,
Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to inser	ŧ
here in parentheses (filed on January 17, 2014 and give	*3
Application No. $\underline{14/158,680}$ by the following Office $\underline{\text{US}-\text{Unite}}$	d
States Patent and Trademark Office) this APPLICATION'	\$
Application No., filing date, and Office, when known;	
was filed on and was given Application	
No by the following Office	Ç.
	٠.
	ASSIGNEE'S legal representatives, of the Law and Corporate Affair Department, Microsoft Corporation, One Microsoft Way, Redmond Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on January 17, 2014 and give Application No. 14/158,680 by the following Office US – Unite States Patent and Trademark Office) this APPLICATION' 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:

y	AND
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).

inventór's Signature

1/17/2014

Date

Tihomir T. Tarnavski

TUXOMUP TEPHABCKU

Printed Name in English

Printed Name in Native Language

(if other than English)

# PATENT ASSIGNMENT MS Docket No.: 340557.01

inventor of application o	subject matter ("l	INVENTION") disclosed a GHT OPTIONALLY TYPED	inventor or an original joint nd/or claimed in a patent DATA REPRESENTATION OF
$\boxtimes$	will be filed.	ASSIGNOR hereby autho	rizes, and requests,
	ASSIGNEE'S legal re	epresentatives, of the Law	and Corporate Affairs
	Department, Micro	soft Corporation, One Mic	rosoft Way, Redmond,
	Washington 98052	(ASSIGNEE'S LEGAL REPRE	SENTATIVES), to insert
	here in parentheses	s (filed on <u>January 17, 2014</u>	and given Application
	No. <u>14/158,680</u>	by the following Office US	<u>– United States Patent</u>
	and Trademark Of	fice) this APPLICATION's	Application No., filing
	date, and Office, w	hen known;	
	was filed on	and was given A	pplication
	No	by the following Office	
		". ,	
Micros	soft Corporation, a	Washington Corporation,	, on behalf of itself and its
successors a	nd assigns ("ASSIG	NEE"), is entitled to, and	is desirous of acquiring, the
entire and e	xclusive rights, titl	e and interest, including	the right of priority, in the
INVENTION a	and the APPLICATI	ON (and all other applic	cations and patents derived
therefrom, s	uch as continuing a	applications, in whole or i	n part, in and for the United
States, its ter	critories, and all fore	eign countries ("APPLICATION	ON DERIVATIVES"));
ASSIGI	NOR hereby authori	zes, and requests, ASSIGN	EE'S LEGAL REPRESENTATIVES
to insert the	Application No., f	iling 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).

Down	1/17/2014	
Inventor's Signature	Date	
Savas Parastatidis	Σάββας Παραστατίδης	
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

RECORDED: 01/17/2014