Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Erh-Chun Yeh	12/28/2004
Youxuan Jin	12/28/2004
Zhenyu Tang	01/04/2005
Jin Teik Teh	01/04/2005
Manoj Nuthakki	12/28/2004

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:	11029953

CORRESPONDENCE DATA

Fax Number: (216)696-8731

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

Phone: 216-696-8730

Email: volszewski@thepatentattorneys.com

Correspondent Name: Himanshu S. Amin

Address Line 1: 24th Floor, 1900 E. 9th Street Address Line 4: Cleveland, OHIO 44114

NAME OF SUBMITTER: Himanshu S. Amin

Total Attachments: 5

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PATENT REEL: 015616 FRAME: 0922

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We, Erh-Chun Yeh, Youxuan	Jin, Zhenyu Tang, Jin Teik Teh, and Manoj
Nuthakki ("ASSIGNORS"), have invented su	bject matter ("INVENTION") disclosed and/or
claimed in a patent application entitled "Pl	RESCRIBED NAVIGATION USING TOPOLOGY
METADATA AND NAVIGATION PATH" ("APP	PLICATION"), which:
·	executed PATENT ASSIGNMENT. ASSIGNOR
	requests, ASSIGNEE'S legal representatives, of
·	900 E. 9th Street, Cleveland, Ohio 44114,
•	customer number 27195, to insert here in
	No. <u>11/029,953</u> , filed 1/5/05
	Serial Number and filing date, when known;
is filed concurrently her	and was given U.S. Serial No; ewith;
Microsoft Corporation, a Was	shington Corporation, on behalf of itself and
its successors and assigns ("ASSIGNEE"), is	s entitled to, and is desirous of acquiring, the
entire and exclusive rights, title and intere	est in the INVENTION and the APPLICATION
(and all other applications and patents de	rived therefrom, such as continuing
applications, in and for the United States,	its territories, and all foreign countries
("APPLICATION DERIVATIVES"));	
For good and valuable consi	deration, the receipt of which is hereby
acknowledged by the ASSIGNOR, the ASSIG	GNOR hereby sells, assigns and transfers to
the ASSIGNEE, the entire and exclusive rig	hts, title and interest in the INVENTION and
the APPLICATION (and APPLICATION DERIV	
	e all instruments and documents required for
	CATION (and APPLICATION DERIVATIVES), for
	therefrom, and for the purpose of protecting
and perfecting title to the APPLICATION (a	
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DATE	Erh-Chun Yeh
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D. 1977	
DATE	Youxuan Jin
DATE	Zhenyu Tang
	Zhenyu Tang
DATE	Jin Teik Teh
DATE	Manoj Nuthakki

We, Ern-Chun Yen, Youxuan	Jin, Znenyu Tang, Jin Teik Ten, and Manoj
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	RESCRIBED NAVIGATION USING TOPOLOGY
METADATA AND NAVIGATION PATH" ("API	
	executed PATENT ASSIGNMENT. ASSIGNOR
	requests, ASSIGNEE'S legal representatives, of
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	900 E. 9th Street, Cleveland, Ohio 44114,
	customer number 27195, to Insert here in
parenthesis (U.S. Serial I	No. <u>11/029, 953</u> , filed <u>1/5/05</u>
this APPLICATION'S U.S.	Serial Number and filing date, when known;
was filed on	and was given U.S. Serial No;
is filed concurrently her	·
	shington Corporation, on behalf of itself and
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	est in the INVENTION and the APPLICATION
(and all other applications and patents de	
applications, in and for the United States,	its territories, and all foreign countries
("APPLICATION DERIVATIVES"));	
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acknowledged by the ASSIGNOR, the ASSI	GNOR hereby sells, assigns and transfers to
	ghts, title and interest in the INVENTION and
the APPLICATION (and APPLICATION DERI	
	e all instruments and documents required for
	CATION (and APPLICATION DERIVATIVES), for
	therefrom, and for the purpose of protecting
and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).
TO A COURT	Erh-Chun Yeh
DATE	
12-28-2004	Jin Yourous
	Youxuan Jin
DATE	1 CONTROLL AWY
DATE	Zhenyu Tang
DATE	211011) 0 2 111119
DATE	Jin Teik Teh
2/18/100	
DATE	Manoj Nuthakki

PATENT

REEL: 015616 FRAME: 0925

Zhenyu Tang, Jin Teik Teh, and Manoj
t matter ("INVENTION") disclosed and/or
CRIBED NAVIGATION USING TOPOLOGY
ATION"), which:
ecuted PATENT ASSIGNMENT. ASSIGNOR
lests, ASSIGNEE'S legal representatives, of
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E. 9th Street, Cleveland, Ohio 44114,
tomer number 27195, to insert here in
11/029,953 , filed 1/5/05
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was given U.S. Serial No;
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R hereby sells, assigns and transfers to
title and interest in the INVENTION and
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instruments and documents required for
ON (and APPLICATION DERIVATIVES), for
refrom, and for the purpose of protecting
APPLICATION DERIVATIVES).
Erh-Chun Yeh
Youxuan Jin
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Zhenyu Tang
Jin Teik Teh
JIII TCIK ICH
Manoj Nuthakki

We, Erh-Chun Yeh, Youxuan Jin, Zi	henyu Tang, Jin Teik Teh, and Manoj
Nuthalki ("ASSICNORS"), have invented subject i	matter ("INVENTION") disclosed and/or
claimed in a patent application entitled "PRESCR	IBED NAVIGATION USING TOPOLOGY
METADATA AND NAVIGATION PATH" ("APPLICAT	TION"), which:
will be filed without this execu	ited PATENT ASSIGNMENT. ASSIGNOR
hereby authorizes, and reques	its, ASSIGNEE'S legal representatives, of
Amin and Turocy, LLC, 1900 E	, 9th Street, Cleveland, Ohio 44114,
who are associated with custo	mer number 27195, to insert here in
parenthesis (U.S. Serial No. 11	
this APPLICATION'S U.S. Serial	Number and filing date, when known;
was filed on and w	as given U.S. Serial No
is filed concurrently herewith:	
Microsoft Corporation, a Washingt	ton Corporation, on behalf of itself and
its successors and assigns ("ASSIGNEE"), is entit	led 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 te	rritories, and all foreign countries
("APPLICATION DERIVATIVES"));	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	ion, the receipt of which is hereby
acknowledged by the ASSIGNOR, the ASSIGNOR	hereby sells, assigns and transfers to
the ASSIGNEE, the entire and exclusive rights, t	itle and interest in the INVENTION and
the APPLICATION (and APPLICATION DERIVATIV	
ASSIGNOR agrees to execute all li	nstruments and documents required for
the making and prosecution of the APPLICATIO	N (and APPLICATION DERIVATIVES), for
litigation regarding letters patent derived there	from and for the purpose of protecting
and perfecting title to the APPLICATION (and A	PPLICATION DERIVATIVES).
and perfecting title to the Arribeation (and A	
DATE	Erh-Chun Yeh
	Youxuan Jin
DATE	1 Ouxuan 3m
DATE	Zhenyu Tang
•	
1/4/2005	
DATE	Jin Felk Teh
DATE	Manoj Nuthakki
DAID	

We, Erh-Chun Yeh, Youxuan Jin,	Zhenyu Tang, Jin Teik Teh, and Manoj		
Nuthakki ("ASSIGNORS"), have invented subject	t matter ("INVENTION") disclosed and/or		
claimed in a patent application entitled "PRESCRIBED NAVIGATION USING TOPOLOGY			
METADATA AND NAVIGATION PATH" ("APPLICATION"), which:			
will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR			
· · · · · · · · · · · · · · · · · · ·	ests, ASSIGNEE'S legal representatives, of		
Amin and Turocy, LLC, 1900 E. 9th Street, Cleveland, Ohio 44114,			
who are associated with customer number 27195, to insert here in			
	1/029,953 , filed 1/5/05		
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	was given U.S. Serial No		
Is filed concurrently herewit	_		
Microsoft Corporation, a Washin	gton Corporation, on behalf of itself and		
its successors and assigns ("ASSIGNEE"), is ent	titled to, and is desirous of acquiring, the		
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(and all other applications and patents derived	therefrom, such as continuing		
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("APPLICATION DERIVATIVES"));			
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acknowledged by the ASSIGNOR, the ASSIGNO	R hereby sells, assigns and transfers to		
the ASSIGNEE, the entire and exclusive rights,	title and interest in the INVENTION and		
the APPLICATION (and APPLICATION DERIVATI	VES);		
ASSIGNOR agrees to execute all	Instruments and documents required for		
the making and prosecution of the APPLICATION	ON (and APPLICATION DERIVATIVES), for		
litigation regarding letters patent derived ther	refrom, and for the purpose of protecting		
and perfecting title to the APPLICATION (and A	• •		
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DATE	Erh-Chun Yeh		
DATE	Youxuan Jin		
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DATE	Zhenyu Tang		
DATE	ri. m.u. m.t		
DATE	Jin Teik Teh		
12/28./04	Manoro		
	rwan yw		
DATE	Manoj Nuthakki		

RECORDED: 01/27/2005