#### PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Tolga Acar	02/11/2009
Josh Benaloh	02/09/2009
Niels Thomas Ferguson	02/09/2009
Carl M. Ellison	02/10/2009
Mira Belenkiy	02/09/2009
Duy Lan Nguyen	02/18/2009

#### **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:	12389217

#### **CORRESPONDENCE DATA**

500926667

Fax Number: (425)936-7329

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

425-707-2290 Phone:

Email: dbouton@microsoft.com

Correspondent Name: Dianne Bouton Address Line 1: One Microsoft Way

Address Line 2: Patent Group Docketing Dept Address Line 4: Redmond, WASHINGTON 98052

ATTORNEY DOCKET NUMBER: 325866.01

**PATENT** 

**REEL: 023040 FRAME: 0849** 

NAME OF SUBMITTER:	Anup Kumar		
Total Attachments: 12	Total Attachments: 12		
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PATENT REEL: 023040 FRAME: 0850

Belenkiy, and Duy Lan Nguyen ("ASS	els Thomas Ferguson, Carl M. Ellison, Mira SIGNOR"), have invented subject matter n a patent application entitled "MANAGING
hereby authorizes, and re the Law and Corporate Aff Microsoft Way, Redmond, customer number 69316, , filed filing date, when known:	executed PATENT ASSIGNMENT. ASSIGNOR quests, ASSIGNEE'S legal representatives, of airs Department, Microsoft Corporation, One Washington 98052, who are associated with to insert here in parenthesis (Application No) this APPLICATION's Application No. and nd was given Application No, 12/389217 ith;
successors and assigns ("ASSIGNEE"), is entire and exclusive rights, title and intercand all other applications and patent applications, in and for the United State ("APPLICATION DERIVATIVES"));  For good and valuable considerations acknowledged by the ASSIGNOR, the ASSIGNEE, the entire and exclusive righte APPLICATION (and APPLICATION DERIVATION ASSIGNOR agrees to execute all in making and prosecution of the APPLICATION.	nstruments and documents required for the ATION (and APPLICATION DERIVATIVES), for therefrom, and for the purpose of protecting
Inventor's Signature	Date
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Tolga Acar Printed Name in English	Printed Name in Native Language (if other than English)

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iosh Benaloh	
Printed Name in English	Printed Name in Native Language (if other than English)
nventor's Signature	Date
Viels Thomas Ferguson	erate
Printed Name in English	Printed Name in Native Language (if other than English)
nventor's Signature	Date
Carl M. Ellison	
rinted Name in English	Printed Name In Native Language (if

other than English)

### **PATENT ASSIGNMENT**

MS Docket No.: 325866.01

Inventor's Signature	Date
Mira Belenkiy	
Printed Name in English	Printed Name in Native Language (if other than English)

18 FEB 2009

Inventor's Signature Date

Duy Lan Nguyen

Printed Name in English

Printed Name in Native Language (if other than English)

Belenkiy, and Duy Lan Nguyen ("ASSI	Is Thomas Ferguson, Carl M. Ellison, Mira (GNOR'), have invented subject matter a patent application entitled "MANAGING"
hereby authorizes, and req the Law and Corporate Affa Microsoft Way, Redmond, V customer number 69316, to 	executed PATENT ASSIGNMENT. ASSIGNOR quests, ASSIGNEE'S legal representatives, of irs Department, Microsoft Corporation, One Vashington 98052, who are associated with prince in parenthesis (Application No) this APPLICATION's Application No. and display display the display of the content
successors and assigns ("ASSIGNEE"), is enemire and exclusive rights, title and interest (and all other applications and patents applications, in and for the United State ("APPLICATION DERIVATIVES"));  For good and valuable consider acknowledged by the ASSIGNOR, the ASSIGNEE, the entire and exclusive righthe APPLICATION (and APPLICATION DERIVATION ASSIGNOR agrees to execute all insteading and prosecution of the APPLICATION	struments and documents required for the TION (and APPLICATION DERIVATIVES), for herefrom, and for the purpose of protecting
Inventor's Signature	Date
Tolga Acar	
Printed Name in English	Printed Name in Native Language (if other than English)

Inventor's Signature	Date
osh Benaloh	
Printed Name in English	Printed Name in Native Language (if other than English)
nventor's Signature	Date
Niels Thomas Ferguson	
Printed Name in English	Printed Name in Native Language (if other than English)
Carl M. Ellison Inventor's Signature	10 Feb 09  Date
Carl M. Ellison	<del></del> .
Printed Name in English	Printed Name in Native Language (if

other than English)

Inventor's Signature	2/9/2009 Date
Mira Belenkiy	
Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date
Duy Lan Nguyen	
Printed Name in English	Printed Name in Native Language (if

Belenkiy, and Duy Lan Nguyen ("ASSIGNIVENTION") disclosed and/or claimed in GROUP KEYS" ("APPLICATION"), which:  will be filed without this experience by authorizes, and required the Law and Corporate Affai	a patent application entitled "MANAGING cecuted PATENT ASSIGNMENT. ASSIGNOR lests, ASSIGNEE'S legal representatives, of rs Department, Microsoft Corporation, One
customer number 69316, to	ashington 98052, who are associated with insert here in parenthesis (Application No. ) this APPLICATION's Application No. and
filing date, when known;	was given Application No. 12/389217
successors and assigns ("ASSIGNEE"), is entendential enterent and exclusive rights, title and interest (and all other applications and patents applications, in and for the United States ("APPLICATION DERIVATIVES"));  For good and valuable considered acknowledged by the ASSIGNOR, the ASSIGNEE, the entire and exclusive right the APPLICATION (and APPLICATION DERIVA	derived therefrom, such as continuing, its territories, and all foreign countries ation, the receipt of which is hereby NOR hereby sells, assigns and transfers to ts, title and interest in the INVENTION and TIVES); truments and documents required for the ION (and APPLICATION DERIVATIVES), for the terefrom, and for the purpose of protecting
Inventor's Signature	Date
Tolga Acar	D. I. d. Albuma in Alatina Language (if
Printed Name in English	Printed Name in Native Language (if

Inventor's Signature	Date
Josh Benaloh	
Printed Name in English	Printed Name in Native Language (if other than English)
Deguson	2009-02-09
Inventor's Signature	Date
Niels Thomas Ferguson	
Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date
Carl M. Ellison	•
Printed Name in English	Printed Name in Native Language (if other than English)

nventor's Signature	Date
Mira Belenkiy	
Printed Name in English	Printed Name in Native Language (if other than English)
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### PATENT ASSIGNMENT

I/WE, Tolga Acar, Josh Benaloh, Niels Thomas Ferguson, Carl M. Ellison, Mira Belenkiy, and Duy Lan Nguyen ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "MANAGING GROUP KEYS" ("APPLICATION"), which:

will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR
hereby authorizes, and requests, ASSIGNEE'S legal representatives, of
the Law and Corporate Affairs Department, Microsoft Corporation, One
Microsoft Way, Redmond, Washington 98052, who are associated with
customer number 69316, to insert here in parenthesis (Application No.
, filed) this APPLICATION's Application No. and
filing date, when known;
was filed on $\frac{02/19/2009}{2}$ and was given Application No. $\frac{12/389217}{2}$
is filed concurrently herewith;

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"));

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, the 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).

Teles UM	2/11/2009
Inventor's Signature	Date
Tolga Acar	
Printed Name in English	Printed Name in Native Language (if
	other than English)

MS Docket No.: <u>325866.01</u>

Josh Berald	Feb. 9, 2009
Inventor's Signature	Date
Josh Benaloh	
Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date
Niels Thomas Ferguson	Dute
Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date
Carl M. Ellison	
Printed Name in English	Printed Name in Native Language (if

other than English)

nventor's Signature	Date
Mira Belenkiy	
Printed Name in English	Printed Name in Native Language (if
	other than English)
	other than English)
Inventor's Signature	Other than English)  Date