PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL P. MASTRANGELO	04/01/2011
ALADDIN A. NASSAR	04/01/2011
DAVID M. ALONGI	04/01/2011
EMMANUEL JOSE MIRANDA-STEINER	04/01/2011
TZE MENG LEE	03/30/2011

RECEIVING PARTY DATA

Name:	MICROSOFT CORPORATION
Street Address:	ONE MICROSOFT WAY
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State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14617354

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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.

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ATTORNEY DOCKET NUMBER:	332038.02
NAME OF SUBMITTER:	GARY A. ROBINETTE
SIGNATURE:	/Gary A. Robinette/
DATE SIGNED:	04/15/2015

Total Attachments: 6

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PATENT REEL: 035416 FRAME: 0797

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PATENT REEL: 035416 FRAME: 0798

PATENT ASSIGNMENT

I/WE, Michael P. Mastrangelo, Aladdin A. Nassar, David M. Alongi, Emmanuel Jose Miranda-Steiner, Tze Meng Lee ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CACHED DATA DETECTION" ("APPLICATION"), which:

L	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;
Ï	was filed on $2/9/15$ and was given Application No. $14/617,354$;
	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).

Date
04/01/2011
Printed Name in Native Language (if other than English)

nventor's Signature Lladolus Aly Vassel Aladdin A. Nassar	Date 4/1/2011
Printed Name in English	Printed Name in Native Language (if other than English)
nventor's Signature	Date
David M. Alongi	
Printed Name in English	Printed Name in Native Language (if other than English)
,,	
nventor's Signature	Date
Emmanuel Jose Miranda-Steiner	
Printed Name in English	Printed Name in Native Language (if other than English)
	3

Date

other than English)

Printed Name in Native Language (if

Inventor's Signature

Printed Name in English

Tze Meng Lee

PATENT ASSIGNMENT

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nventor's Signature	Date
Michael P. Mastrangelo	
Printed Name in English	Printed Name in Native Language (if
_	other than English)

Inventor's Signature	Date
Aladdin A. Nassar	
Printed Name in English	Printed Name in Native Language (if other than English)
-	
Inventor's Signature	Date
David M. Alongi	4/1/2011
Printed Name in English David Michael Alongi	Printed Name in Native Language (if other than English)
wayla Michael Hondi	Other than Englishy
Inventor's Signature	Date
	4/1/2011
Emmanue! Jose Miranda-Steiner	7/1/00/
Emmanuel Jose Miranda-Steiner Printed Name in English Emmanuel Micanda Steiner	Printed Name in Native Language (if other than English)

Inventor's Signature	Date
Tze Meng Lee	
Printed Name in English	Printed Name in Native Language (if other than English)

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Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date
David M. Alongi	
12	Printed Name in Native Language (if other than English)
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Printed Name in English	other than English)
Printed Name in English	
Inventor's Signature Emmanuel Jose Miranda–Steiner	other than English) Date
David M. Alongi Printed Name in English Inventor's Signature Emmanuel Jose Miranda-Steiner Printed Name in English	other than English)
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