PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STUART EDWARD SCHECHTER	02/07/2012
DAVID ALEXANDER MOLNAR	02/06/2012
JACOB RUBIN LORCH	02/06/2012
BARRY CLAYTON BOND	02/06/2012
BRYAN JEFFREY PARNO	02/06/2012

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:	15048989

CORRESPONDENCE DATA

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.

Phone: 4257079382

Email: usdocket@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	335092.02
NAME OF SUBMITTER:	MICHAEL J. MEDLEY
SIGNATURE:	/Michael J. Medley/
DATE SIGNED:	03/08/2016

Total Attachments: 3

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PATENT REEL: 037923 FRAME: 0452

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PATENT REEL: 037923 FRAME: 0453

PATENT ASSIGNMENT

I/WE, ("ASSIGNOR"), Stuart Edward Schechter, David Alexander Molnar, Jacob Rubin Lorch, Barry Clayton Bond, and Bryan Jeffrey Parno have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "UTILIZATION OF A PROTECTED MODULE TO PREVENT OFFLINE DICTIONARY ATTACKS" ("APPLICATION"), which:

X	will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR
	nereby 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 $\frac{69316}{}$, to insert here in parenthesis (Application
	No. $\frac{13/370331}{100}$ filed $\frac{02/10/2012}{100}$ this APPLICATION's Application No. and
	filing date, when known;
	was filed on and was given Application No;
	s 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).

MS Docket No.: 335092.01

PATENT ASSIGNMENT

MS Docket No.: 335092.01

<u> L</u>	<u> </u>
Inventor's Signature	Date
Stuart Edward Schechter	
Printed Name in English	Printed Name in Native Language (if other than English)

A.S.	6 Feb 2012
Inventor's Signature	Date
David Alexander Molnar	
Printed Name in English	Printed Name in Native Language (if
	other than English)

| Company | Comp

PATENT ASSIGNMENT

MS Docket No.: 335092.01

<u> 1914, </u>	
Inventor's Signature	Date
Barry Clayton Bond	
Printed Name in English	Printed Name in Native Language (if
	other than English)

inventor's Signature

Date

Bryan Jeffrey Parno

Printed Name in English

Printed Name in Native Language (if

other than English)