

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Sharon FRIDMAN</td><td>10/26/2007</td></tr><tr><td>Ben VOLACH</td><td>02/12/2008</td></tr><tr><td>Ran MAKAVY</td><td>12/20/2007</td></tr><tr><td>I-Hsiang YU</td><td>11/19/2007</td></tr><tr><td>Brian ROSEN</td><td>02/12/2007</td></tr><tr><td>Thomas Chambers ELY</td><td>10/26/2007</td></tr></tbody></table>	Name	Execution Date	Sharon FRIDMAN	10/26/2007	Ben VOLACH	02/12/2008	Ran MAKAVY	12/20/2007	I-Hsiang YU	11/19/2007	Brian ROSEN	02/12/2007	Thomas Chambers ELY	10/26/2007	
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Brian ROSEN	02/12/2007														
Thomas Chambers ELY	10/26/2007														
RECEIVING PARTY DATA															
Name:	NeuStar, Inc.														
Street Address:	46000 Center Oak Plaza														
City:	Sterling														
State/Country:	VIRGINIA														
Postal Code:	20166														
PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11778006</td></tr></tbody></table>	Property Type	Number	Application Number:	11778006											
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Application Number:	11778006														
CORRESPONDENCE DATA															
Fax Number:	(202)298-7570														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	(202) 625-3795														
Email:	wiladean.johnson@kattenlaw.com														
Correspondent Name:	Wiladean P. Johnson														
Address Line 1:	1025 Thomas Jefferson Street, N.W.														
Address Line 2:	East Lobby - Suite 700														
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20007														
ATTORNEY DOCKET NUMBER:	330952.00148														

CH \$40.00 11778006

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PATENT
REEL: 020513 FRAME: 0121

NAME OF SUBMITTER:

Wiladean P. Johnson

Total Attachments: 7

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ASSIGNMENT

THIS ASSIGNMENT, by **SHARON FRIDMAN** residing at **22 FAIRLAWN AVENUE, CHISWICK, LONDON, UNITED KINGDOM W4 5EF**, **BEN VOLACH** residing at **ALEXANDER LAROCHE COURT, FLAT 1, 100 KINGS ROAD, RICHMOND, SURREY, UNITED KINGDOM TW10 6EE**, **RAN MAKAVY**, **46000 CENTER OAK PLAZA, STERLING, VIRGINIA 20166**, **I-HSIANG YU** residing at **6658 AVIGNON BOULEVARD, FALLS CHURCH, VIRGINIA 22043**, **BRIAN ROSEN** residing at **470 CONRAD DRIVE, MARS, PENNSYLVANIA 16046**, and **THOMAS CHAMBERS ELY** residing at **1178 DELAWARE DRIVE, BRIDGEWATER, NEW JERSEY 08807** (hereinafter referred to as "the Assignors"), witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in **SYSTEM AND METHOD FOR SHORT MESSAGE SERVICE AND INSTANT MESSAGING CONTINUITY** as set forth in an application for Letters Patent of the United States,

- (1) ☐ which is a provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☐ to be filed herewith; or
- (2) ☒ which is a non-provisional application
 - (a) ☒ bearing Application No. 11/778,006 and filed on July 13, 2007;
 - (b) ☐ having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, **NEUSTAR, INC.**, a corporation duly organized under and pursuant to the laws of **NEW JERSEY** and having its principal place of business at **46000 CENTER OAK PLAZA, STERLING, VIRGINIA 20166** (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of **KATTEN MUCHIN ROSENMAN LLP of 1025 THOMAS JEFFERSON STREET, N.W., EAST LOBBY, SUITE 700, WASHINGTON, D.C. 20007-5201** to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date 16-08-2007 Signature of Assignor Sharon Fridman
Sharon FRIDMAN

Date _____ Signature of Assignor _____
Ben VOLACH

Date _____ Signature of Assignor _____
Ran MAKAVY

Date _____ Signature of Assignor _____
I-Hsiang YU

Date _____ Signature of Assignor _____

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Date _____ Signature of Assignor _____
Sharon FRIDMAN

Date Feb 12, 2008 Signature of Assignor _____
Ben GOLACH

Date _____ Signature of Assignor _____
Ran MAKAVY

Date _____ Signature of Assignor _____
I-Hsiang YU

Date _____ Signature of Assignor _____
Brian ROSEN

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Date _____ Signature of Assignor _____
Sharon FRIDMAN

Date _____ Signature of Assignor _____
Ben VOLACH

Date 20/12/07 Signature of Assignor _____
Ran MAKAY

Date _____ Signature of Assignor _____
I-Hsiang YU

Date _____ Signature of Assignor _____
Brian ROSEN

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Date _____ Signature of Assignor _____
Sharon FRIDMAN

Date _____ Signature of Assignor _____
Ben VOLACH

Date _____ Signature of Assignor _____
Ran MAKAVY

Date Mar. 19, 2007 Signature of Assignor _____
I-Hsiang YU

Date _____ Signature of Assignor _____
Brian ROSEN

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Date _____ Signature of Assignor _____
Sharon FRIDMAN

Date _____ Signature of Assignor _____
Ben VOLACH

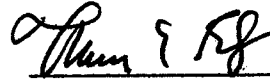
Date _____ Signature of Assignor _____
Ran MAKAVY

Date _____ Signature of Assignor _____
I-Hsiang YU

Date 2/12/07 Signature of Assignor _____
Brian ROSEN

Date 10/26/07

Signature of Assignor



Thomas Chambers ELY