502907598 07/25/2014

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| WEIYA LUO | 11/15/2000 |
| ANTHONY WOGRIN CONFREY | 12/20/2000 |
| MICHAEL L TUROK | 11/15/2000 |
| BRUCE WILSON | 12/21/2000 |

RECEIVING PARTY DATA

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|-----------------|---------------------------|
| Street Address: | 40 SYLVAN ROAD |
| City: | WALTHAM |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02451 |

PROPERTY NUMBERS Total: 2

| Property Type | Number | | |
|---------------------|----------|--|--|
| Application Number: | 11549978 | | |
| Application Number: | 12399685 | | |

CORRESPONDENCE DATA

Fax Number: (908)766-8264

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| SIGNATURE: | /joseph.r.palmieri/ |
| DATE SIGNED: | 07/25/2014 |

Total Attachments: 4

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PATENT 502907598 REEL: 0333392 FRAME: 0027

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ASSIGNMENT

For good and valuable consideration which we hereby acknowledge,

we,

Weiya Luo

Anthony Wogrin Confrey Michael J. Turok

Bruce Wilson

residing (respectively) at

71 Cortland Ln., Boxborough, MA 01719

25 Irving St., Newton, MA 02459

403 Foxwood Cir., Peabody, MA 01960

183 Wright St., Arlington, MA 02474

sell and assign to *VERIZON LABORATORIES INC.*, a Delaware corporation, its successors and assigns (hereinafter "Company"), all right, title and interest in our invention in

SYSTEMS AND METHODS FOR MANAGING FAULTS IN A NETWORK

and the application for United States Patent therefor executed concurrently herewith, and all Patents which may be granted therefor, including re-examination Patents in all foreign countries, and all divisions, reissues, re-examinations, continuations and extensions thereof, and authorize and request the Commissioner of Patents to issue all Patents on said invention or resulting therefrom to said Company as assignee of the entire interest, and covenant that we have full right so to do and agree that we will communicate to said Company or its representatives any facts known to us respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said invention, in the United States and all foreign countries.

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| Witness | | overt like Hugh | Date | 11/15/00 |
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| Witness | | | Date _ | |
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| Witness | | | Date | |
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|---------|--------------|----------|---------------------|------------------|------------|-------------------|------------|-----------|---------|--|
| | | i | | | | Attorne | y Doc | ket No. 0 | 0-8008 | |
| | Inventor | Mich | turk No | u Roll | 4 . — | Date | 11 | -15-0 | 20 | |
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| Witness | | Role | Int M | lc Hu | | Date | | 11/15 | 0 | |
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| | | Inventor | Mu | ce L | Tulls | / \$2 ~ | | Date | 12/21/0 | 0 |
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| | Witness | Smatt | um gl | otzbach | | Date | <u>la/</u> | /21/01 | D | |
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| | Witness | Darl | alma | / | <i>'</i> | Date | _/4 | 2/21/ | 00 | |
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ASSIGNMENT

For good and valuable consideration which we hereby acknowledge.

we. Weiya Luo
Anthony Wogrin Confrey
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| | Inventor | | Date _ | |
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| | Address | Weiya Luo 71 Cortland Ln., Boxborough, MA 01719 | | |
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| Witness | Address | Anthony Wogrin Confrey 25 Irving St., Newton, MA 02459 wh Podgov | Date | 12/20/00 |
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Attorney Docket No. 00-8008

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PATENT REEL: 033392 FRAME: 0032

RECORDED: 07/25/2014