| FORM PTO-1619A Expires 06/30/99 OMB 0651-0027 | U.S. Department of Comm Patent and Trademark Off PATENT |
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| TO: The Commissioner of P. 101 | 1231755 LY attached original document(s) or copy(ies). |
| Submission Type | Conveyance Type |
| X New | Assignment Security Agreement |
| Resubmission (Non-Recordation) Document ID# | License Change of Name |
| Correction of PTO Error Reel # Frame # | Merger X Other RELEASE & REASSIGNMENT |
| Corrective Document Reel # Frame # | U.S. Government (For Use ONLY by U.S. Government Agencies) Departmental File Secret File |
| Conveying Party(ies) | Mark if additional names of conveying parties attached Execution Date |
| Name (line 1) VULCAN VENTURES INCORPOR | RATED Month Day Y 11-29-99 |
| Name (line 2) | |
| Second Party Name (line 1) | Execution Date Month Day |
| Name (line 2) | |
| Receiving Party | Mark if additional names of receiving parties attached |
| Name (line 1) METRICOM, INC | If document to be re is an assignment a |
| Name (line 2) | receiving party is not domiciled in the Un States, an appointm |
| Address (line 1) 980 UNIVERSITY AVENUE | of a domestic representative is att |
| Address (line 2) | (Designation must i separate document Assignment.) |
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| Domestic Representative Name and | d Address Enter for the first Receiving Party only. |
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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

REEL: 010452 FRAME: 0116

| FORM PTO-1619B Expires 06/30/99 OMB 0651-0027 | Page 2 | U.S. Department of Commerce Patent and Trademark Office PATENT |
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| Correspondent Name and Addres | S Area Code and Telephone Numbe | 800-833-9848 |
| Name TONYA CHAPPLE | | |
| Address (line 1) C/O CSC | | |
| Address (line 2) 80 STATE STREET | | |
| Address (line 3) ALBANY, NEW YORK 12207 | | |
| Address (line 4) | | |
| Pages Enter the total number of including any attachmen | f pages of the attached conveyance doc nts. | eument # 4 |
| Application Number(s) or Patent N | iviair | r if additional numbers attached |
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| 08/265,185 08/768,821 | | ent Number(s) -,115,433 5,570,084 |
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| If this document is being filed together with a new signed by the first named executing inventor. | Patent Application, enter the date the patent applic | |
| Patent Cooperation Treaty (PCT) | | |
| Enter PCT application number | PCT PCT | PCT |
| only if a U.S. Application Num has not been assigned. | PCT PCT | PCT |
| Number of Properties | total number of properties involved. | # 29 |
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| To the best of my knowledge and attached copy is a true copy of th indicated herein. | belief, the foregoing information is true e original document. Charges to depos | and correct and any ait account are authorized, as |
| TONYA CHAPPLE | Jonya Chapple | , 12-14-99 |
| Name of Person Signing | Signature | Date |

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| | | | 5,818,828 | 5,636,216 | 5,465,398 |
| | | | 5,406,249 | 5,703,602 | 5,479,176 |
| | | | 4,835,463 | 4,939,451 | 5,485,393 |

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RELEASE AND REASSIGNMENT OF PATENT COLLATERAL

This release and reassignment of patent collateral is made this 29thday of November, 1999 by Vulcan Ventures Incorporated, a Washington corporation (hereinafter "Vulcan").

WHEREAS, Metricom, Inc., a Delaware corporation (hereinafter "Metricom") and Vulcan are parties to a certain Mortgage and Assignment of Patents (hereinafter "Agreement"), which was recorded at the United States Patent and Trademark Office on July 6, 1999 at Reel 010070, frame 0462; and

WHEREAS, all obligations secured by the security interest granted by Metricom to Vulcan under the Agreement have been fully paid and satisfied, Vulcan is hereby releasing the security interest granted under the Agreement and reassigns to Metricom all interest assigned to Vulcan pursuant to the Agreement.

NOW, THEREFORE, for good and valuable consideration, receipt and sufficiency of which are hereby acknowledged, Vulcan releases and reassigns to Metricom any and all rights it acquired from Metricom by virtue of the Agreement, including, without limitation, the lien on the following identified United States patents and patent applications, respectively:

| U.S. Patent Application Nos. | <u>Description</u> |
|------------------------------|---|
| 08/265,185 | Method for Distributing Program Code to Intelligent Nodes in a Wireless Mesh Data Communication Network |
| 08/768,821 | Method for Emulating Point to Point Protocol (PPP) Over an Imperfect Mesh Network |
| 4,939,726 | Method and System for Routing Packets in a Packet Communication Network |
| 5,115,433 | Method and System for Routing Packets in a Packet Communication Network |
| 5,570,084 | Loose Source Routing Over Disparate Network Types in a Packet Communication Network |
| 5,471,469 | Method of Resolving Media Contention in Radio Communication Links |
| 5,079,768 | Method for Frequency Sharing in Frequency Hopping Communications Network |

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| 5,479,400 | Transceiver Sharing Between Access and Inband Backhaul in a Wireless Digital Communication |
|-------------|--|
| 5,453,977 - | Method for Network Configuration Via Third Party Query |
| 5,130,987 | Method for Synchronizing a Wide Area Network without Global Synchronization |
| 5,400,338 | Parasitic Adoption of Coordinate-Based Addressing by Roaming Node |
| 5,515,369 | Method for Frequency Sharing and Frequency Punchout in Frequency Hopping Communications |
| 5,007,052 | Method for Routing Packets by Squelched Flooding |
| 5,488,608 | Method and System for Routing Packets in a Packet Communication Network Using Locally Constructed Routing Tables |
| 5,664,194 | Method for Autonomously Transferring Code to a Computer Without Accessing Local Memory by the Central Processing Unit |
| 5,774,344 | RF Shield for Circuit Card having a Solid First Flange |
| 5,706,221 | Method and Apparatus for Recovering Digital Data from Baseband Analog Signal |
| 5,818,828 | Hybrid Multiple Access Protocol for Wireless Frequency Hopping Microcells with Adaptive Backhaul and Heartbeat |
| 5,636,216 | Method for Translating Internet Protocol Addresses to Other Distributed Network Addressing Schemes |
| 5,465,398 | Automatic Power Level Control of a Packet Communication Link |
| 5,406,249 | Method and Structure for Coupling Power-Line Carrier Current Signals Using Common Mode Coupling |
| 5,703,602 | Portable RF Antenna |
| 5,479,176 | Multiple-Element Driven Array Antenna and Phasing Method |
| 4,835,463 | Wide Dynamic Range AC Current Sensor |
| 4,939,451 | Wide Dynamic Range AC Current Sensor |

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| 5,485,393 | Method and Apparatus for Measuring Electrical Parameters using a Differentiating Current Sensor and a Digital Integrator |
|-----------|--|
| 5,243,536 | Method and Apparatus for Measuring Volt-Amps Reactive Power |
| 5,223,790 | Current Sensor using Current Transformer with Sintered Primary |
| 5,338,332 | Current Sensor using Current Transformer with Sintered Primary |

IN WITNESS WHEREOF, Vulcan has duly executed this Release and Reassignment on the date set forth above.

VULCAN VENTURES INCORPORATED

William D. Savoy, Vice President

CERTIFICATE OF ACKNOWLEDGMENT

| STATE OF WA | SHINGTON |) |
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| | d |)ss: |
| COUNTY OF _ | King |) |

On November 29, 1999, before me, Francoise E. Barrella Notary Public, personally appeared William D. Savoy, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity as Vice President of Vulcan Ventures Incorporated, and that by his signature on the instrument the entity upon behalf of which he acted, executed the instrument.

WITNESS my hand and official seal.

OFFICIAL SEAL
FRANCOISE E. BARRETT
Notary Public — State of Washington
My Commission Expires 11-1-00

RECORDED: 12/06/1999

Notary Public

My Commission Expires: Nou 1, 2000

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