09-11-2002 FORM PTO-1595 (Modified) U.S. DEPARTMENT OF COMMERCE HEET (Rev. 03-01) OMB No. 0651-0027 (exp.5/31/2002) Patent and Trademark Office P08A/REV03 102218550 Tab settings → → To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies): Hong Thi Nguyen Michael Griffiths Name: BellSouth Intellectual Property Corporation Stephen LaPierre Address: 824 Market Street Suite 510 Additional names(s) of conveying party(ies) 3. Nature of conveyance: Merger City: Wilmington State/Prov.: DE Security Agreement Change of Name ☐ Other Country: USA ZIP: 19801 Execution Date: 8/29/02 Additional name(s) & address(es) ☐ Yes Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: 8/29/02 Filing date Patent Application No. B. Patent No.(s) 9/10/2002 GTDW11 00000098 501390 1 FC:581 ☐ Yes ☐ No Additional numbers 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: Lawrence D. Eisen 7. Total fee (37 CFR 3.41):.....\$ 40.00 41,009 Registration No. Enclosed - Any excess or insufficiency should be credited or debited to deposit account Address: Shaw Pittman LLP Authorized to be charged to deposit account 1650 Tysons Boulevard 8. Deposit account number: 50-1390 City: McLean State/Prov.: VA ZIP: 22102 (Attach duplicate copy of this page if paying by deposit account) Country: USA DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Lawrence D. Eisen Name of Person Signing Signature Total number of pages including cover sheet, attachments, and Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

PATENT

Docket No.: BS02-254

REEL: 013262 FRAME: 0926

ASSIGNMENT

WHEREAS, Hong Thi Nguyen, residing at 2980 Coles Way, Atlanta, GA 30350;

Michael Griffiths, residing at 3830 Canterbury Walk Drive, Duluth, GA 30097;

Stephen LaPierre, residing at P.O. Box 204, Union City, GA 30291;

(hereinafter "Assignors") have invented certain new and useful improvements in

SYSTEMS AND METHODS FOR AN INFRASTRUCTURE CENTRALIZED HEARTBEAT

for a full description of which, reference is here made to an application for Letters Patent of the United States of America

	Executed on		
	Serial. No.	, filed	
in the U.S. Patent and Trademark Office and to U.S. provisional patent application(s)			
	Serial. No.	, filed	

in the U.S. Patent and Trademark Office; and

WHEREAS, BellSouth Intellectual Property Corporation a corporation of the State of Delaware, having its principal office and place of business at 824 Market Street, Suite 510, Wilmington, Delaware 19801 (hereinafter "Assignee") is desirous of acquiring the entire right, title, and interest in, to, and under said invention and application above identified, and in, to, and under any Letters Patent that may be obtained for said invention, together with all foreign rights corresponding thereto, as hereinafter more fully set forth.

PATENT REEL: 013262 FRAME: 0927 ASSIGNMENT BS02-254

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable and legally sufficient consideration, the receipt of which by each Assignor from Assignee is hereby acknowledged, Assignors have agreed to sell, assign, and transfer and by these presents does hereby, sell, assign, and transfer unto Assignee the entire right, title and interest in, to, and under said invention and application above identified and Letters Patent of the United States of America that may be obtained in respect thereof; any corresponding applications for Letters Patent and Letters Patent therefor in all other areas of the world; and any reissues, extensions, substitutions, confirmations, divisions, and continuations of any of the foregoing (hereinafter "Invention Rights"), to have and to hold for the sole and exclusive use and benefit of Assignee forever.

Assignors hereby covenant and agree, for themselves and for their respective legal representatives, to assist and cooperate with Assignee in the preparation and prosecution of any applications included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any applications or Letters Patent included within the Invention Rights and further to execute and deliver to Assignee any and all additional papers that may be requested by Assignee for the purpose of implementing the terms of this ASSIGNMENT.

Assignors hereby authorize and empower Assignee to invoke and claim for any applications or Letters Patent included within the Invention Rights the benefit of any rights to which Assignors might be entitled under international law or under the laws of any particular country (such as, without limitation, the right of priority provided by the International Convention for the Protection of Industrial Property, as amended) and to invoke and claim said rights without further written or oral authorization from Assignors.

Assignors hereby consent that a copy of this ASSIGNMENT shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that

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ASSIGNMENT BS02-254

may be required in any particular country for any purpose and more particularly in proof of the right of Assignee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended.

Assignors covenant and agree that this ASSIGNMENT and all of the terms hereof shall inure to the benefit of the successors, assigns, legal representatives, or nominees of Assignee, without further written or oral authorization from Assignors.

Assignors hereby authorize and request the Commissioner of Patents and the United States Patent and Trademark Office to issue Letters Patent to Assignee in accordance with the terms of this ASSIGNMENT.

IN TESTIMONY WHERE	OF, the said Assignor has hereunto set his hand this
29th day of August , 200	2.
-	SIGNATURE: <u>honglhinguye</u> NAME: HONG THI NGUYEN
STATE OF Georgia	1
me to be the same person wh appeared before me this day in	Pade H, a Notary Public in and for the County certify that HONG THI NGUYEN, personally known to ose name is subscribed to the foregoing instrument, person and acknowledged that he/she signed, sealed, ent as his/her free and voluntary act for the use and
IN WITNESS WHEREOF	, I have hereunto set my hand and Notarial Seal, this , 2002.
(SEAL)	Notary Public EPadout
	Notary Public, Gwinnell County, Georgia My Commission Expires Feb. 19, 2004
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(SEAL)	Notary Public Padget
	Notary Public, Guinnett County, Georgie

My Commission Expires Feb. 19, 2004

PATENT

RECORDED: 09/03/2002 **REEL: 013262 FRAME: 0930**