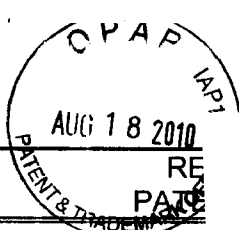


BOX ASSIGNMENTS



08-20-2010

DO NOT USE FOR TRADEMARKS



103604768

T
JLYTO THE DIRECTOR OF THE U.S. PATENT
SIR: PLEASE RECORD THE ATTACHED

. HEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Yinjun ZHU;
2. John Gordon HINES

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?

☐ YES☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: **TeleCommunication Systems, Inc.**ADDRESS: **275 West Street, Suite 400, Annapolis, Maryland 21401**

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED?

☐ YES☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation – multiple copies of same Assignment signed by different inventors is one document.)☒ ASSIGNMENT OF: ☒ WHOLE ☐ PART INTEREST

EXEC. DATE: April 5, 2006

☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION☐ SECURITY ☐ MERGER ☐ OTHER:4. EXECUTION DATES(S) ON THE DECLARATION IF FILED HERewith: **April 5, 2006**

(NOTE: IF DATES ↑↓ DIFFER, SEE ATTORNEY!!)

4.5 APPL. OR PATENT NUMBER(S) – OTHERS ON ADD'L SHEET(S) ATTACHED?

☐ YES☒ NOA. PAT. APP. NO.(S)
series code/serial no.

MATTER #

1ST INVENTOR if
not in item 1

B. PATENT NO(S)

MATTER #

1ST INVENTOR
if not in item 1

12/805,201

20-334

ZHU

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:**MANELLI DENISON & SELTER PLLC**
2000 M Street, NW, 7th Floor
Washington, DC 20036

6. NUMBER INVOLVED:

APPLNS 1 + PATS = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL X \$40 = \$40

5.5 ATTORNEY DOCKET:

8. IF ABOVE FEE IS MISSING OR INADEQUATE, CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 50-0687

20-334

20-334

UNDER ORDER NO: 20-334

20-334

MATTER NO.

CLIENT REFERENCE

duplicate sheet not required

CLIENT/MATTER

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.

Attorney: William H. Bollman

Reg. No. 36,457

WHB/jtm

10. Total number of pages, including this cover sheet, attachments and document (do not file duplicate cover sheet)	2 500667 1230520	4
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DATE: **August 18, 2010**

FAX: (202) 887-0336

TEL. (202) 261-1020

FILE WITH PTO RETURN RECEIPT

PATENT

REEL: 024868 FRAME: 0532

ASSIGNMENT AND AGREEMENT

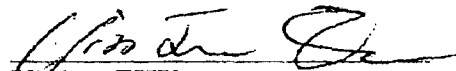
For value received, we, **ZHU, Yinjun**, of **Sammamish**, in the County of **King** and State of **Washington** and **HINES, Gordon John** of **Seattle**, in the County of **King** and the State of **Washington** hereby sell, assign and transfer to **TeleCommunication Systems, Inc.**, a corporation of the State of **Maryland**, having an office at **275 West Street, Suite 400, Annapolis, Maryland, 21401, U.S.A.**, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **MOBILE BASED AREA EVENT HANDLING WHEN CURRENTLY VISITED NETWORK DOES NOT COVER AREA**, described in an application for Letters Patent of the United States, filed herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to **TeleCommunication Systems, Inc.** the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize **TeleCommunication Systems, Inc.** to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of **TeleCommunication Systems, Inc.** to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said invention be issued to **TeleCommunication Systems, Inc.** in the United States and in all countries foreign to the United States, or to such nominees as **TeleCommunication Systems, Inc.** may designate.

We agree that, when requested, we shall, without charge to TeleCommunication Systems, Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


Yinjun ZHU

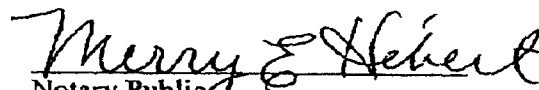
Date: April 5, 2006

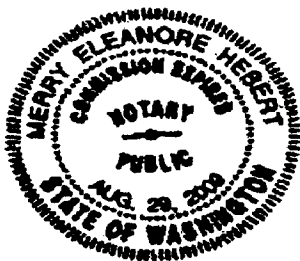
United States of America US)

State of wa 534-52-2399, ss.:

County of King)

On this 5 day of April, 2006, before me personally came Yinjun ZHU, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public




Gordon John HINES

Date: April 5, 2006

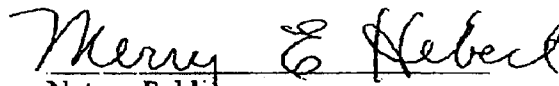
United States of America)

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On this 5 day of April, 2006, before me personally came
Gordon John HINES, to me known to be the individual described in and who executed the
foregoing instrument, and acknowledged execution of the same.




Notary Public

TeleCommunication Systems, Inc.
275 West Street, Suite 400
Annapolis, MD 21401