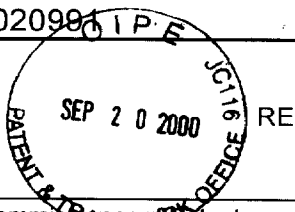


Customer No. 020991

FORM PTO-1595

1-31-92



09-26-2000



101471943

DEPARTMENT OF COMMERCE
Patent and Trademark Office

PD-200092

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

DONALD C. CHANG

Additional Name(s) of conveying party(ies) attached?

yes ☒no ☐

2. Name and address of receiving party(ies):

Name: HUGHES ELECTRONICS CORPORATION

Internal Address: Bldg. 001, M/S A109
PO Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: September 8, 2000, see attached

Street Address: 200 N. Sepulveda Blvd.
P.O. Box 956
El Segundo, California 90245Additional name(s) & address(es) attached? ☐ yes ☒ no

4. Application number(s) or patent number(s): 09/594,374

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ yes ☒ no

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: HUGHES ELECTRONICS CORPORATION
Internal Address: Bldg. 001, M/S A109
PO Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956**PLEASE ASSOCIATE THIS APPLICATION WITH
CUSTOMER NO. 020991.**

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41): \$40.00

☐ Enclosed☒ Authorized to be charged to deposit account

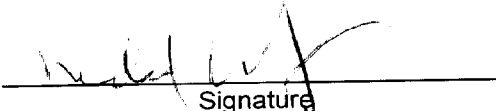
8. Deposit account number:

50-0383

(Attached duplicate copy of this page if paying by deposit account)

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.*MICHAEL W. SALES
Name of Person Signing
SignatureSeptember 15, 2000
Date

Total number of pages comprising cover sheet: []

OMB No. 0651-0011 (exp. 4/94)

09/22/2000 KZEWIE 00000117 500383 09594347

02 FC:581

40.00 CH

**PATENT
REEL: 011099 FRAME: 0835**

FORM PTO-1595
1-31-92

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORDATION FORM COVER SHEET
PATENTS ONLY

PD-200092

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Additional Name of conveying party(ies):

NAME OF PARTY

EXECUTION DATE

Weizheng Wang

September 15, 2000

Wah Lim

September 15, 2000

Ying Feria

September 5, 2000

Ming Chang

September 7, 2000

ASSIGNMENT

Page 1 of 2
PD-200092

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a(an) **COMMUNICATION SYSTEM AS A SECONDARY PLATFORM WITH FREQUENCY REUSE** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on **June 15, 2000**, as Serial No. **09/594,374**; and

WHEREAS, **HUGHES ELECTRONICS CORPORATION**, (hereinafter referred to as **HUGHES**), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in- part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR DONALD C. D. CHANG	INVENTOR'S SIGNATURE <i>[Signature]</i>	DATE <i>9/8/00</i>
RESIDENCE (CITY AND STATE) 2350 Moberly Court, Thousand Oaks, California 91360		INVENTION AGREEMENT DATE September 11, 1978
FULL NAME OF SOLE OR JOINT INVENTOR WEIZHENG WANG	INVENTOR'S SIGNATURE <i>[Signature]</i>	DATE <i>9/15/00</i>
RESIDENCE (CITY AND STATE) 27113 Indian Peak Road, Rancho Palos Verdes, California 90275		INVENTION AGREEMENT DATE January 29, 1998
FULL NAME OF SOLE OR JOINT INVENTOR WAH LIM	INVENTOR'S SIGNATURE <i>[Signature]</i>	DATE <i>9/15/00</i>
RESIDENCE (CITY AND STATE) 11082 Hunting Horn Drive, Santa Ana, California 92705		INVENTION AGREEMENT DATE February 24, 1997
FULL NAME OF SOLE OR JOINT INVENTOR YING FERIA	INVENTOR'S SIGNATURE <i>[Signature]</i>	DATE <i>9/5/00</i>
RESIDENCE (CITY AND STATE) 306 Anderson Street, Manhattan Beach, California 90266		INVENTION AGREEMENT DATE January 9, 1997
FULL NAME OF SOLE OR JOINT INVENTOR MING U. CHANG	INVENTOR'S SIGNATURE <i>[Signature]</i>	DATE <i>9/7/00</i>
RESIDENCE (CITY AND STATE) 28815 Indian Valley Road, Rancho Palos Verdes, California 90275		INVENTION AGREEMENT DATE November 3, 1977
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

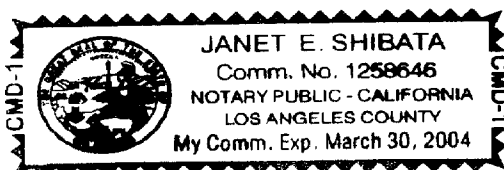
STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

SS:

On SEPTEMBER 5, 2000 before me, JANET E. SHIBATA,
a Notary Public in and for said State, personally appeared
YING FERIA

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public

[Signature]

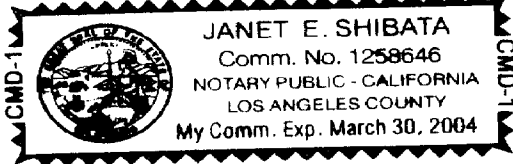
STATE OF CALIFORNIA)
)
COUNTY OF LOS ANGELES)

SS:

On September 7, 2000 before me, JANET E. SHIBATA
a Notary Public in and for said State, personally appeared
MING U. CHANG

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public

STATE OF CALIFORNIA)
)
COUNTY OF LOS ANGELES)

SS:

On September 8, 2000 before me, JANET E. SHIBATA
a Notary Public in and for said State, personally appeared
DONALD C.D. CHANG

☒ personally known to me or ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public

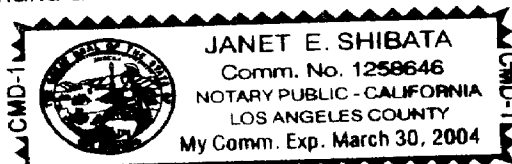
STATE OF CALIFORNIA)
)
COUNTY OF LOS ANGELES)

SS:

On SEPTEMBER 15, 2000 before me, JANET E. SHIBATA
a Notary Public in and for said State, personally appeared
WEIZHENG WANG AND WAH LIM

☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Notary Public

13650 CO (7/98)

RECORDED: 09/20/2000

PATENT
REEL: 011099 FRAME: 0839