

FORM PTO-1595
1-31-92

01-11-2000

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

:ET

To the Honorable Commissioner of Patents

101241923

Attached original documents or copy thereof.

1. Name of conveying party(ies): **Sudhakar Rao and Arun Bhattacharyya**

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

yes ☐no ☒

3. Nature of Conveyance:

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

Execution Date: December 13, 1999

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

Name: HUGHES ELECTRONICS CORPORATION

Internal Address: Bldg. 001, M/S A109
P.O. Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956Street Address: Bldg. 001, M.S. A109
200 N. Sepulveda Blvd.
El Segundo, California 90245Additional name(s) & address(es) attached? ☐ yes ☒ no

4. Application number(s) or patent number(s):

December 13, 1999

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: Patent Records Administration
Address: Hughes Electronics Corporation
Bldg. 001, M/S A109
P.O. Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

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)

01/10/2000 DCOATES 00000171 500383 09467637

01 FC:581 40.00 CH

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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.*GEORGANN S. GRUNEBACH
Registration No. 33,179

Signature

Date

Total number of pages including cover sheet: [3]

ASSIGNMENTPage 1 of 2
PD-990127

Customer No. 020991

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) **Multi-Mode Square Horn With Cavity-Suppressed Higher-Order Modes** 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 _____ as Serial No. _____ ; 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.

Customer No. 020991

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR SUDHAKAR RAO	INVENTOR'S SIGNATURE <i>Sudhakar Rao</i>	DATE 12/13/99
RESIDENCE (CITY AND STATE) 20326 MANSEL AVENUE, TORRANCE, CA 90503		INVENTION AGREEMENT DATE AUGUST 26, 1996

FULL NAME OF SOLE OR JOINT INVENTOR ARUN BHATTACHARYYA	INVENTOR'S SIGNATURE <i>Arun Bhattacharya</i>	DATE 12/13/99
RESIDENCE (CITY AND STATE) 719 CENTER STREET, EL SEGUNDO, CA 90245		INVENTION AGREEMENT DATE JULY 10, 1991

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

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)

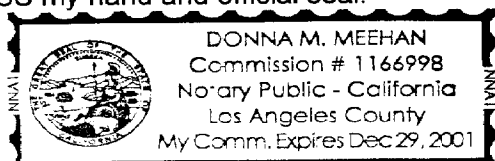
SS:

On December 13, 1999 before me, Donna M. Meehan -----,

a Notary Public in and for said State, personally appeared
Sudhakar Rao and Arun Bhattacharyya

☒ 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 Donna M. Meehan

13650 CO JAN 98

RECORDED: 12/20/1999

PATENT
REEL: 010474 FRAME: 0507