

09-21-1998

FORM PTO-1595
1-31-92U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

SHEET

100783635

PD-95447

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

1. Name of conveying party(ies):

Xiang-Gen Xia

Additional Name(s) of conveying party(ies) attached?
yes ☐ no ☒

3. Nature of Conveyance:

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

Execution Date: 7-24-96

2. Name and address of receiving party(ies)

Name: Hughes ElectronicsInternal Address: Bldg. C01, M.S. A126
P.O. Box 80028
Los Angeles, CA 90080-0028Street Address: 7200 Hughes TerraceCity Los Angeles State CA Zip 90045Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s): PD-95447

If this document is being filed together with a new application, the execution date of the application is: 7-24-96

A. Patent Application No.(s)

08/695321

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence concerning documents should be mailed
Patent Docket Administration
Name: Hughes ElectronicsInternal Address: Bldg. C01, M.S. A126
P.O. Box 80028
Los Angeles, CA 90080-0028Street Address: 7200 Hughes TerraceCity: Los Angeles State: CA Zip 900456. Total number of applications and patents involved: ☐ 17. Total fee (37 CFR 3.41):\$ 40.00

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

08-3250

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

DO NOT USE THIS SPACE

FEE OK

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.

Vijayalakshmi D. Duraiswamy

Name of Person Signing
Registration No. 31,505Vijayalakshmi D. Duraiswamy July 31, 1996
Signature DateTotal number of pages comprising cover sheet: ☐ 3

HUGHES**ASSIGNMENT**Page 1 of 2
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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) **ITERATIVE TIME-FREQUENCY DOMAIN TRANSFORM METHOD FOR FILTERING TIME-VARYING, NONSTATIONARY WIDE BAND SIGNALS AND NOISE** for which application for Letters Patent of the United States has been executed by me on or before this day, or (if the following is completed) filed on ____ as Serial No. ____; and

WHEREAS, HE Holdings, Inc., doing business as Hughes Electronics, (hereinafter referred to as **HUGHES ELECTRONICS**), a Delaware Corporation, having its principal place of business in Los Angeles, 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 ELECTRONICS**, 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 ELECTRONICS**, 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 ELECTRONICS**, 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 ELECTRONICS**, 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 ELECTRONICS**, 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 ELECTRONICS**, its successors, assigns or other legal representatives.

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ASSIGNMENT
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IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Xiang-Gen Xia	<i>Xiang-Gen Xia</i>	7-24-96
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE
1233 Landeburn Circle, Westlake Village, California 93161		February 27, 1990

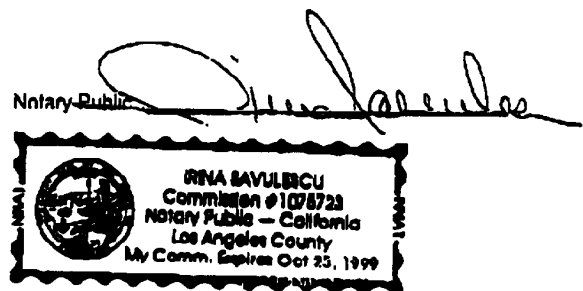
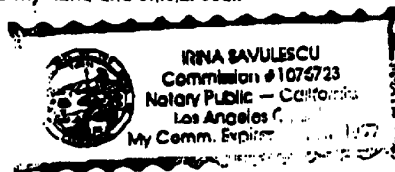
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

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 July 24, 1996 before me, Irina Savulescu
a Notary Public in and for said State, personally appeared Xiang-Gen Xia

☐ 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.



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RECORDED: 07/31/1996

PATENT
REEL: 9298 FRAME: 0562