

05-13-1998

RECC



PD-960508

100709262

To the Honorable Commissioner of Patents and Trademarks. *Initial documents or copy thereof.*

4.9.98

1. Name of conveying party(ies):
David W. Payton
David M. Keirsey
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
P.O. 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: March 30, 1998 / March 26, 1998

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

4. Application number(s) or patent number(s): 960508
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
Internal Address: HUGHES ELECTRONICS CORPORATION
Building 001, M/S A109
P.O. Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956
Street Address: 200 N. Sepulveda Blvd.
P.O. Box 956
El Segundo, California 90245

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)

05/11/1998 JSW08077 00000140 500383 09061356
Said Ref: 00000150 PAM: 500383 09061356
01 PC:581 40.00 CH

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.
VIJAYALAKSHMI D. DURAISWAMY Vijayalakshmi D. Duraiswamy April 7, 1998
Vijayalakshmi D. Duraiswamy Signature Date
Name of Person Signing

Total number of pages comprising cover sheet: [5]

ASSIGNMENT

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) **SYSTEM AND METHOD FOR RAPID DETERMINATION OF VISIBILITY-BASED TERRAIN PROPERTIES OVER BROAD REGIONS** 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.

IN WITNESS WHEREOF, I have executed this instrument.

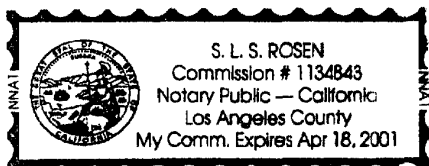
FULL NAME OF SOLE OR JOINT INVENTOR David W. Payton	INVENTOR'S SIGNATURE <i>David Payton</i>	DATE March 30, 1998
RESIDENCE (CITY AND STATE) Woodland Hills, California 91364		INVENTION AGREEMENT DATE December, 1983
FULL NAME OF SOLE OR JOINT INVENTOR David M. Keirsej	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Aurora, Colorado 80016		INVENTION AGREEMENT DATE July 15, 1980

STATE OF Calif.)
COUNTY OF LOS ANGELES) SS:

On 3-30-98 before me, SLS ROSEN, NOTARY
a Notary Public in and for said State, personally appeared _____
DAVID W PAYTON

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 SLS ROSEN

ASSIGNMENT

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) **SYSTEM AND METHOD FOR RAPID DETERMINATION OF VISIBILITY-BASED TERRAIN PROPERTIES OVER BROAD REGIONS** 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.

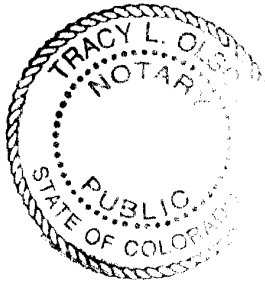
IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR David W. Payton	INVENTOR'S SIGNATURE	DATE
RESIDENCE (CITY AND STATE) Woodland Hills, California 91364		INVENTION AGREEMENT DATE December, 1983
FULL NAME OF SOLE OR JOINT INVENTOR David M. Keirsey	INVENTOR'S SIGNATURE <i>David M. Keirsey</i>	DATE 3/26/98
RESIDENCE (CITY AND STATE) Aurora, Colorado 80016		INVENTION AGREEMENT DATE July 15, 1980

STATE OF Colorado)
COUNTY OF Arapahoe)SS:
On 3/26/98 before me, Tracy L. Olson
a Notary Public in and for said State, personally appeared _____

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.



Tracy L. Olson
Notary Public Tracy L. Olson
Expiration 5/17/99