

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT				
NATURE OF CONVEYANCE:	Corrective Assignment to correct the name of the assignee previously recorded on Reel 007914 Frame 0477. Assignor(s) hereby confirms the name of the assignee is HE Holdings, Inc. d/b/a Hughes Electronics.				
CONVEYING PARTY DATA					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Peter V. Messina</td> <td>02/22/1996</td> </tr> </tbody> </table>		Name	Execution Date	Peter V. Messina	02/22/1996
Name	Execution Date				
Peter V. Messina	02/22/1996				
RECEIVING PARTY DATA					
Name:	HE Holdings, Inc. d/b/a Hughes Electronics				
Street Address:	7200 Hughes Terrace				
City:	Los Angeles				
State/Country:	CALIFORNIA				
Postal Code:	90045				
PROPERTY NUMBERS Total: 1					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>5672866</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	5672866
Property Type	Number				
Patent Number:	5672866				
CORRESPONDENCE DATA					
Fax Number:	5128538801				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>					
Phone:	5128538800				
Email:	dddluca@intprop.com				
Correspondent Name:	Dawn DeLuca				
Address Line 1:	1120 South Capital of Texas Highway				
Address Line 2:	Building 2, Suite 300				
Address Line 4:	Austin, TEXAS 78746				
ATTORNEY DOCKET NUMBER:	6657-82400				
NAME OF SUBMITTER:	Dean M. Munyon				
Signature:	/Dean M. Munyon/				
Date:	04/10/2013				

CH \$40.00 5672866

PATENT

Total Attachments: 6

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Corrective Cover Sheet

FORM PTO-15
1-31-82

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

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

1. Name of conveying party(ies):
Peter V. Messina

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

2. Name and address of receiving party(ies)
HE Holdings, Inc. db/a Hughes Electronics
Name: ~~Hughes Aircraft Company~~

Internal Address: Bldg. C01, M.S. A126
P.O. Box 80028
Los Angeles, CA 90080-0028

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: February 22, 1996

Street Address: 7200 Hughes Terrace

City Los Angeles State CA Zip 90045

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s): PD-95170

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 documents should be mailed

Name: S.E. Walters, Hughes Aircraft Co

Internal Address: Bldg. C01, M.S. A126
P.O. Box 80028
Los Angeles, CA 90080-0028

Street Address: 7200 Hughes Terrace

City: Los Angeles State: CA Zip 90045

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:
08-3250
(Attach 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.

Georgann S. Grunebach
Name of Person Signing
Reg. 33,179 SL11070

Georgann S. Grunebach
Signature
08-3250 110 581

March 19, 1996
Date

Total number of pages comprising cover sheet: 3



ASSIGNMENT

Page 1 of 2
PD-85170

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(n) **SYSTEM AND METHOD FOR REMOTE IMAGE SENSING AND AUTO-CALIBRATION** 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, 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.

IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Peter V. Messina	INVENTOR'S SIGNATURE <i>Peter V. Messina</i>	DATE 2/22/96
RESIDENCE (CITY AND STATE) 2312 30th Street Santa Monica, CA 90405		INVENTION AGREEMENT DATE 6/88

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

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RESIDENCE (CITY AND STATE)		INVENTION AGREEMENT DATE

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

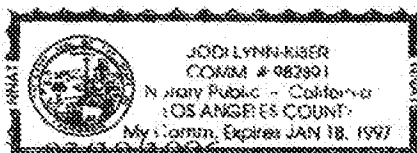
SS:

On FEB 22, 1996 before me, JUDI LYNN-KISER

a Notary Public in and for said State, personally appeared PETER V. MESSINA
Peter V. Messina

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.



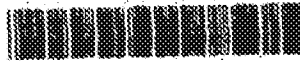
Notary Public

Judi Lynn-Kiser

13850 CO FEB 96

05-03-1996

08/618647



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1 SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

FORM PTO-152
1-31-82



PATENTS ONLY

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

1. Name of conveying party(ies):
Peter V. Messina

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

2. Name and address of receiving party(ies)

Name: Hughes Aircraft Company

Internal Address: Bldg. C01, M.S. A126
P.O. Box 80028
Los Angeles, CA 90080-0028

Street Address: 7200 Hughes Terrace

City Los Angeles State CA Zip 90045

Additional name(s) & address(es) attached? Yes No

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: February 22, 1996

2-17-96

4. Application number(s) or patent number(s): PD-95170

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

A. Patent Application No.(s) _____
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65705 U.S. PTO

05/02/96

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Georgann S. Grunbach

Name of Person Signing

Reg. 33,179 SL11070 03/28/76 08410647

Georgann S. Grunbach
Signature

March 19, 1996
Date

08-3250 110 581 40.00CH

Total number of pages comprising cover sheet: 3

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

PATENT
REEL: 7914 FRAME: 0477

PATENT
REEL: 030185 FRAME: 0671

08/618647



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Page 1 of 2
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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.

IN WITNESS WHEREOF, I have executed this instrument.

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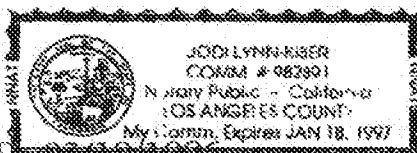
SS:

On FEB 22, 1996 before me, JUDI LYNN-KISER

a Notary Public in and for said State, personally appeared PETER V. MESSINA

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

Judi Lynn-Kiser

13850 CO FEB 96
RECORDED

PATENT

REEL: 7914 FRAME: 0479