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

1. Name of conveying party(ies):
   Craig A. Finseth
   Jeffrey A. Brown
   Philip E. Hsiiao
   Robert G. Arsenault

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

Street Address: 200 N. Sepulveda Blvd.
                 P.O. Box 956
                 El Segundo, California 90245

Additional name(s) & address(es) attached?  □ yes □ no

3. Nature of Conveyance:
   ☑ Assignment  □ Merger
   □ Security Agreement  □ Change of Name
   □ Other

Execution Date: March 20, 2000; March 22, 2000; July 19, 2000

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

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

   A. Patent Application No.(s) 09/535,638

   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

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)

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.

   John A. Crook, Registration No. 30,830
   Name of Person Signing

   Signature
   July 20, 2000
   Date

Total number of page: [8]

OMB No. 0651-0011 (exp. 4/94)
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) METHOD AND APPARATUS FOR SHARING VIEWING PREFERENCES 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 March 24, 2000 as Serial No. 09/535,638; 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.

* Inserted by Attorney of Record,
John A. Crook, Reg. No. 30,830
IN WITNESS WHEREOF, I have executed this instrument.

<table>
<thead>
<tr>
<th>FULL NAME OF SOLE OR JOINT INVENTOR</th>
<th>INVENTOR'S SIGNATURE</th>
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<tr>
<td>Craig A. Finseth</td>
<td></td>
<td>22 Nov 77</td>
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<tr>
<td>Robert G. Arsenault</td>
<td></td>
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<td>INVENTION AGREEMENT DATE</td>
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<tr>
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STATE OF Minnesota ) ) SS:

COUNTY OF Hennepin )

On March 25, 1984 before me, Doris M. Letendre, 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.

Notary Public

DORIS M. LETENDRE
NOTARY PUBLIC - MINNESOTA
MY COMMISSION EXPIRES JAN. 31, 2005

PATENT
REEL: 010999 FRAME: 0275
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) METHOD AND APPARATUS FOR SHARING VIEWING PREFERENCES 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 March 24, 2000 as Serial No. 09/535,638; 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.

* Inserted by Attorney of Record, John A. Crook, Reg. No. 30,830
IN WITNESS WHEREOF, I have executed this instrument

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<td>Jeffrey A. Brown</td>
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Roseville, Minnesota              |                         |

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RESIDENCE (CITY AND STATE)       | INVENTION AGREEMENT DATE |
Redondo Beach, California         | June 11, 1984 |

STATE OF INDIANA                  |
COUNTY OF HAMILTON                |
SS:                                 |

On July 19, 2000 before me, [signature], Notary Public in and for said State, personally appeared, Jeffrey A. Brown & Philip E. Hsiao.

☑ 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]

Rita J. Shoufler
Notary Public, State of Indiana
Monroe County
My Commission Exp. 07/01/2001

PATENT
REEL: 010999 FRAME: 0277
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) METHOD AND APPARATUS FOR SHARING VIEWING PREFERENCES 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 March 24, 2000 as Serial No. 09/535,638; and

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* Inserted by Attorney of Record,
John A. Crook, Reg. No. 30,830

13650 CO (7/98)
IN WITNESS WHEREOF, I have executed this instrument.

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</table>

STATE OF ___________________________ )  SS:  COUNTY OF ___________________________ )

On ___________________________ before me, 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.

Notary Public

© 1997 National Notary Association • 5350 De Soto Ave • P.O. Box 2402 • Chatsworth, CA 91311-2402 • Prod. No. 5807 • Recorder: Cal. Toll-Free 1-800-676-6827
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California  
County of Los Angeles  }

ss.

On March 20, 2000, before me, Debbie Bennett-Griffin, Name and Title of Officer (e.g., "Jane Doe, Notary Public");

personally appeared Robert G. Arsenault, Name(s) of Signer(s).

Personally known to me
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/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.

Debbie Bennett-Griffin
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document
Title or Type of Document: Assignment of Patent Application

Document Date: March 20, 2000 Number of Pages: ____________

Signer(s) Other Than Named Above: ____________________________

Capacity(ies) Claimed by Signer
Signer’s Name: ____________________________

□ Individual  □ Corporate Officer — Title(s): ____________________________

□ Partner — □ Limited □ General

□ Attorney in Fact

□ Trustee

□ Guardian or Conservator

□ Other: ____________________________

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

PATENT
REEL: 010999 FRAME: 0280

RECORDED: 07/26/2000