



11-09-1998

Docket No. Hughes-Avicon



100874229

To the Honorable Commissioner of Patents and Trademarks. Please record the attached document.

1. Name of conveying party(ies).

Hughes Electronics Corporation

Additional name(s) of conveying party(ies) attached [] Yes [X] No

3. Nature of Conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other

Execution Date : December 15, 1997

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

Name: Rockwell International Corporation

Street Address: 600 Anton Boulevard, Suite 700

City: Costa Mesa State: CA Zip: 92626

Additional name(s) and address(es) attached? [] Yes [X] No

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)
See attached list.B. Patent No.(s)
See attached list.

Additional numbers attached [X] Yes [] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: L. Keith Stephens, D/876 CM74
Internal Address: Rockwell International Corporation
World Headquarters
Street Address: 600 Anton Boulevard, Suite 700
City: Costa Mesa State: CA Zip: 92628-5090

6. Total number of applications and patents involved 28

7. Total fee (37 CFR 3.41): \$ 1,120.00
[] Enclosed
[X] Authorized to be charged to deposit account

8. Deposit Account Number: 18-1722

1120E

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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. This statement shall not affect the recording of the attached document or the rights and duties set forth in the recorded document.

L. Keith Stephens, Reg. No. 32,632
Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet and attachments: [2

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

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01/07/1999 TTOM11 00000108 181722 08865815

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Mail documents to be recorded with required cover sheet information to:

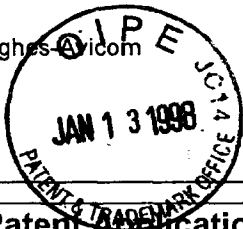
COMMISSIONER OF PATENTS AND TRADEMARKS

BOX ASSIGNMENTS

WASHINGTON, D.C. 20231

02/13/1998 TWILLIAM 00000022 DA#181722 08865815
01 FC:581 40.00 CH

PATENT
REEL: 9556 FRAME: 0427

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

4. A. Patent Application No.(s)	4. B. Patent No.(s)
08/832149	5,123,015
08/864596	5,220,419
08/865815	5,214,505
08/865776	5,289,272
08/865816	5,179,447
07/686076	5,055,660
07/673125	5,057,677
07/579335	5,311,302
08/430006	5,262,762
Filed 10/03/97 - Passenger Control Unit with Security Control - S/N not received	5,374,103
08/441144	5,467,106
08/780558	5,421,530
08/757721	
08/667222	
08/667225	
08/667224	

ASSISTANT SECRETARY'S CERTIFICATE


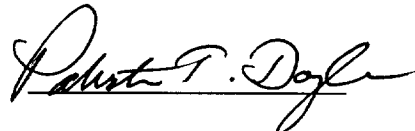
OF

GM/HE MERGER SUB, INC.


The undersigned, an Assistant Secretary of GM/HE Merger Sub, Inc., a Delaware corporation formerly named Hughes Electronics Corporation (the "Corporation"), does hereby certify on behalf of the Corporation, in connection with the Asset Purchase Agreement (the "Agreement") dated as of November 3, 1997 by and between Rockwell Collins, Inc., a Delaware corporation, and the Corporation, that:

1. Attached hereto as Exhibit A is a complete, true and correct copy of resolutions duly adopted by the Board of Directors of the Corporation as of December 7, 1997; such resolutions have not been amended, modified or rescinded and are in full force and effect as of the date hereof; and

2. The persons named below are and have been at all times since October 1, 1997 duly elected and qualified corporate officers of the Corporation holding the offices set forth opposite their names, and the signatures set forth opposite their name are their genuine signatures or a facsimile thereof:

NAME	OFFICE	SIGNATURE
Roxanne S. Austin	Senior Vice President and Chief Financial Officer	
Patrick T. Doyle	Vice President, Taxes & Corporate Development	

IN WITNESS WHEREOF, the undersigned has executed this
Certificate as of the 15th day of December, 1997.


Karen O. Earls
Assistant Secretary

ASSIGNMENT OF PATENTS, PATENT APPLICATIONS, AND DISCLOSURES

WHEREAS, Hughes Avicom International, Inc., a corporation organized and existing under the laws of the State of California ("Assignor") is the owner of the patents listed on this Schedule A attached hereto (the "Patents"), Patent Applications listed on Schedule B attached hereto ("the Patent Applications"), and Disclosures listed on Schedule C attached hereto ("the Disclosures"), all such Schedules made a part hereof; and

WHEREAS, Rockwell Collins, Inc., a corporation organized and existing under the laws of the State of Delaware ("Assignee"), is desirous of acquiring all right, title and interest in the Patents, Patent Applications, and Disclosures in connection with the acquisition by Assignee of substantially all of the assets of the Business (as defined in the Asset Purchase Agreement) of Assignor pursuant to an Asset Purchase Agreement dated as of November 3, 1997, as amended, ("the Asset Purchase Agreement");

NOW, THEREFORE, for good and valuable consideration delivered by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby sell, grant, assign, convey and transfer unto Assignee, all of Assignor's right, title and interest in and to the Patents, Patent Applications, and Disclosures including, but not limited to, any continuations or divisions therefrom, and any and all re-examinations or reissues including the subject matter of any and all claims which may be obtained therefrom, the same to be held and enjoyed by Assignee, its successors, assigns or other legal representatives, for its own use and advantage, and for the use and advantage of its successors, assigns or other legal representatives, to the end of the term or terms for which any patents therefrom are or may be granted or reissued.

Assignor hereby appoints Assignee its attorney-in-fact with respect to the Patents, Patent Applications, and Disclosures to act in Assignor's name, place and stead to execute, deliver and record any document or instrument of assignment required in any country in which any patent applications or patents are pending or issued, granting or confirming the rights granted herein. Assignor agrees that it shall execute all documents reasonably necessary to perfect Assignee's title to the Patents, Patent Applications, and Disclosures.

The Assignment shall be subject to the Asset Purchase Agreement and in the event of any inconsistency, the Asset Purchase Agreement shall govern.

IN WITNESS WHEREOF, Assignor has caused this Assignment to be duly executed on this 15 day of December 1997.

Hughes-Avicom International, Inc.

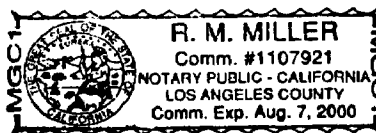
By: Patrick T. Doyle
Name: PATRICK T. DOYLE
Title: ATTORNEY-IN-FACT

Sworn before me by Patrick Doyle, _____ of
Hughes-Avicom, International, Inc. this 15 day of December, 1997.

R. M. Miller
Notary Public

My commission expires:

8/7/2000



Print, type or stamp Commissioned
Name of Notary Public

- ☐ Personally know; or
☐ Produced Identification
☒ Type of identification produced:

CDL 2077584

SCHEDULE A - PATENTS

PD NO.	CNTRY	TITLE	FILING DATE	SERIAL NO.	PATENT NO.	ISSUE DATE
090540	US	DAISY CHAIN MULTIPLEXER	12/20/90	07/830713	5,123,016	06/16/92
090540	EPC	DAISY CHAIN MULTIPLEXER	12/05/91	91311355.1	0492862	07/30/97
090540	JAP	DAISY CHAIN MULTIPLEXER	12/20/91	3-338824	2555241	08/22/96
090540EPC	GBT	DAISY CHAIN MULTIPLEXER			0492862	07/30/97
090540EPC	NLD	DAISY CHAIN MULTIPLEXER			0492862	07/30/97
090581	US	AUTOMATIC RF LEVELING IN PASSENGER AIRCRAFT VIDEO DISTRIBUTION SYSTEM	04/08/91	07/681850	5,220,419	06/15/93
090582	US	AUTOMATIC RF EQUALIZATION IN PASSENGER AIRCRAFT VIDEO DISTRIBUTION SYSTEM	04/08/91	07/681838	5,214,505	05/25/93
090582	GBT	AUTOMATIC RF EQUALIZATION IN PASSENGER AIRCRAFT VIDEO DISTRIBUTION SYSTEM	03/27/92	9208705.7	2255697	05/17/95
091145	US	COMBINED DATA, AUDIO AND VIDEO DISTRIBUTION SYSTEM IN PASSENGER AIRCRAFT	02/18/92	07/838883	5,289,272	02/22/94
A90001A	US	PERSONAL VIDEO PLAYER AND MONITOR ASSEMBLY FOR AIRLINE PASSENGER SEAT CONSOLE	03/05/92	07/847423	5,179,447	01/12/93
A90002	US	PORTABLE TRANSACTION MONITORING UNIT FOR TRANSACTION MONITORING AND SECURITY CONTROL SYSTEMS	05/15/90	07/524673	5,055,660	10/08/91

SCHEDULE A - PATENTS

PD NO.	CNTRY	TITLE	FILING DATE	SERIAL NO.	PATENT NO.	ISSUE DATE
A90003	US	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES	08/16/88	07/318592	6,057,677	10/15/91
A90003	EPC	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES	04/14/88	88904476.8	0293366	01/13/93
A90003	JAP	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES	04/14/88	503983/86	1983847	10/25/95
A90003EPC	BLG	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES			0293366	01/13/93
A90003EPC	FRA	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES			0293366	01/13/93
A90003EPC	GBT	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES			0293366	01/13/93

SCHEDULE A - PATENTS

PD NO.	CNTRY	TITLE	FILING DATE	SERIAL NO.	PATENT NO.	ISSUE DATE
A90003EPC	GFR	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES			0293366	01/13/93
A90003EPC	NLD	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES			0293366	01/13/93
A90003EPC	SWN	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES			0293366	01/13/93
A91002	US	ENTERTAINMENT AND DATA MANAGEMENT SYSTEM FOR PASSENGER VEHICLE INCLUDING INDIVIDUAL SEAT INTERACTIVE VIDEO TERMINALS	07/02/92	07/908095	5,311,302	05/10/94
A91005	US	COMPUTER TERMINAL INCLUDING MULTI-POSITION ATTACHED KEYBOARD	07/02/92	07/907883	5,262,762	11/16/93
A92002	US	SELF-CAPTIVATED LATCH PAWL	04/22/93	08/054498	5,374,103	12/20/94
A93001	US	RETRACTABLE FACE-UP LCD MONITOR WITH OFF-MONITOR POWER SUPPLY AND BACK-EMF BRAKING	02/10/94	08/194659	5,467,106	11/14/95

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SCHEDULE A - PATENTS

PD NO.	CNTRY	TITLE	FILING DATE	SERIAL NO.	PATENT NO.	ISSUE DATE
A83003	US	CORD RETRACTOR MECHANISM	11/23/93	08/156181	5,421,530	08/08/95

SCHEDULE B - PATENT APPLICATIONS

PD NO.	CNTRY	TITLE	FILING DATE	SERIAL NO.
090582	JAP	AUTOMATIC RF EQUALIZATION IN PASSENGER AIRCRAFT VIDEO DISTRIBUTION SYSTEM	04/08/92	114208/92
091145	EPC	COMBINED DATA, AUDIO AND VIDEO DISTRIBUTION SYSTEM IN PASSENGER AIRCRAFT	02/17/93	93301129.8
970099	US	VIDEO DISTRIBUTION FOR IN FLIGHT ENTERTAINMENT USING QUADRATURE AMPLITUDE MODULATED MPEG VIDEO	04/02/97	08/832149
970181	US	VIDEO PLAYER AND DISPLAY DEVICE FOR USE IN AIRCRAFT ENTERTAINMENT SYSTEMS	05/28/97	08/864596
970182	US	METHOD AND APPARATUS FOR PROVIDING ENTERTAINMENT ON-BOARD AN AIRCRAFT	05/30/97	08/865815
970193	US	METHOD AND APPARATUS FOR PROTECTING AIRCRAFT ELECTRONICS FROM LIGHTNING	05/30/97	08/865776
970194	US	METHOD AND APPARATUS FOR RECEIVING BROADCAST ENTERTAINMENT TRANSMISSIONS AT A MOVING RECEIVER STATION	05/30/97	08/865816
A90001	US	PERSONAL VIDEO PLAYER AND MONITOR ASSEMBLY FOR AIRLINE PASSENGER SEAT CONSOLE	04/18/91	07/886076
A90002A	US	PORTABLE TRANSACTION MONITORING UNIT FOR TRANSACTION MONITORING AND SECURITY CONTROL SYSTEMS	03/20/91	07/873,125
A90003	PCT	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES	04/14/88	
A90004	US	INTERACTIVE DATA MANAGEMENT SYSTEM FOR COMMERCIAL TRANSPORT AIRCRAFT	08/06/90	07/579335
A91002	EPC	ENTERTAINMENT AND DATA MANAGEMENT SYSTEM FOR PASSENGER VEHICLE INCLUDING INDIVIDUAL SEAT INTERACTIVE VIDEO TERMINALS	08/29/93	93110304.8
A91002	JAP	ENTERTAINMENT AND DATA MANAGEMENT SYSTEM FOR PASSENGER VEHICLE INCLUDING INDIVIDUAL SEAT INTERACTIVE VIDEO TERMINALS	07/02/93	164788/93
A91005	EPC	COMPUTER TERMINAL INCLUDING MULTI-POSITION ATTACHED KEYBOARD	08/29/93	93110305.5
A91005	JAP	COMPUTER TERMINAL INCLUDING MULTI-POSITION ATTACHED KEYBOARD	07/02/93	164787/93
A93001	FRA	RETRACTABLE FACE-UP LCD MONITOR WITH OFF-MONITOR POWER SUPPLY AND BACK-EMF BRAKING	02/09/95	9501504

SCHEDULE B - PATENT APPLICATIONS

PD NO.	CNTRY	TITLE	FILING DATE	SERIAL NO.
A93001	JAP	RETRACTABLE FACE-UP LCD MONITOR WITH OFF-MONITOR POWER SUPPLY AND BACK-EMF BRAKING	02/10/95	23109/95
A93002	US	PASSENGER CONTROL UNIT WITH SECURITY CONTROL	04/28/95	08/430006
A93002	EPC	PASSENGER CONTROL UNIT WITH SECURITY CONTROL	04/24/96	98106450.8
A93002	JAP	PASSENGER CONTROL UNIT WITH SECURITY CONTROL	04/28/96	106898/96
A93002A	US	PASSENGER CONTROL UNIT WITH SECURITY CONTROL	10/03/97	
A93003	GBT	CORD RETRACTOR MECHANISM	11/21/94	9423466.3
A93003	JAP	CORD RETRACTOR MECHANISM	11/22/94	288097/94
A93003A	GBT	CORD RETRACTOR MECHANISM	11/21/94	9715347.2
A94001	US	A SINGLE-WIRE DATA DISTRIBUTION SYSTEM AND METHOD	05/15/95	08/441144
A94001	EPC	A SINGLE-WIRE DATA DISTRIBUTION SYSTEM AND METHOD	05/07/96	96107211.3
A94001	JAP	A SINGLE-WIRE DATA DISTRIBUTION SYSTEM AND METHOD	05/15/96	120704/96
A96001	US	AIRCRAFT AUDIO/VIDEO INTERCOM SYSTEM	01/08/97	08/780558
A96002	US	LOW COST HYBRID VIDEO DISTRIBUTION SYSTEM FOR AIRCRAFT IN-FLIGHT ENTERTAINMENT SYSTEMS	11/27/96	08/757721
A96003	US	FOR DISTRIBUTING TELEVISION PROGRAMMING DERIVED FROM DIRECT BROADCAST SATELLITES	06/19/96	08/667,222
A96005	US	DISTRIBUTION OF A LARGE NUMBER OF LIVE TV PROGRAMS TO INDIVIDUAL PASSENGERS IN AN AIRCRAFT	06/19/96	08/667,225
A96006	US	DISTRIBUTION OF SATELLITE TELEVISION PROGRAMS TO PASSENGERS IN AN AIRCRAFT WHEN IT IS OUT OF RANGE OF THE SATELLITES	06/19/96	08/667,224

SCHEDULE C - DISCLOSURES

PD NO.	CNTRY	TITLE
970102	US	AUTOMOBILE EMERGENCY SIREN WARNING SYSTEM
A90001	GBT	PERSONAL VIDEO PLAYER AND MONITOR ASSEMBLY FOR AIRLINE PASSENGER SEAT CONSOLE
A90001	JAP	PERSONAL VIDEO PLAYER AND MONITOR ASSEMBLY FOR AIRLINE PASSENGER SEAT CONSOLE
A90003	KOR	TRANSACTION MONITORING AND SECURITY CONTROL SYSTEM FOR THE SALE AND DISTRIBUTION OF ARTICLES
A91001	US	DIGITAL PASSENGER CONTROL UNIT-HEADSET BUTTONS
A91003	US	DIGITAL PASSENGER CONTROL UNIT-HANDS FREE
A91004	US	DIGITAL PASSENGER CONTROL UNIT-POINTING DEVICE
A91006	US	MULTI-POSITION KEYBOARD MECHANISM
A92001	US	ADJUSTABLE LINEAR CLUTCH
A95001	US	CORE SERVICE SYSTEM FOR 777, 767, 747