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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): Hughes Aircraft Company a corporation of the state of Delaware Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

2. Name and address of receiving party(ies) Name: HE Holdings, Inc. Internal Address: a corporation of the state of Delaware Street Address: 7200 Hughes Terrace City: Los Angeles State: CA Zip: 90045 Additional name(s) & address(es) attached? [ ] Yes [X] No

3. Nature of conveyance: [ ] Assignment [X] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: 12/16/1997

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) B. Patent No.(s) 5128530, 5548439, 5553617, 5554847, 5557624, 5129152, Additional numbers attached? [X] Yes [ ] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Raytheon Company Internal Address: EO / E04 / N119 Intellectual Property & Licensing Street Address: P.O. Box 902 City: El Segundo State: CA Zip: 90245-0902

6. Total number of applications and patents involved: 22 7. Total fee (37 CFR 3.41).....\$ 880.00 [ ] Enclosed [X] Authorized to be charged to deposit account

8. Deposit account number: 50-2077

20 MAY -6 AM 7:26 CFR/FINANCE

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9. Signature. Leonard A. Alkov, Reg. 30,021 Name of Person Signing Signature Date May 6, 2004

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

05/11/2004 6TDM11 00000019 502077 5128530 01 FC:0021 880.00 BA

PATENT REEL: 015302 FRAME: 0122

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

**CONTINUATION SHEET**

**PATENT NUMBER**

5134470

5135554

5139704

5145722

5542334

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*State of Delaware*  
*Office of the Secretary of State*      PAGE 1

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I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"HUGHES AIRCRAFT COMPANY", A DELAWARE CORPORATION,  
WITH AND INTO "HE HOLDINGS, INC." UNDER THE NAME OF "HE HOLDINGS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SIXTEENTH DAY OF DECEMBER, A.D. 1997, AT 12 O'CLOCK P.M.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

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AUTHENTICATION: 1177434

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DATE: 06-07-01

PATENT  
REEL: 015302 FRAME: 0124

**CERTIFICATE OF OWNERSHIP AND MERGER**

**OF**

**HUGHES AIRCRAFT COMPANY**  
(a Delaware corporation)

**INTO**

**HE HOLDINGS, INC.**  
(a Delaware corporation)

**(UNDER SECTION 253 OF THE DELAWARE  
GENERAL CORPORATE LAW)**

It is hereby certified that:

1. HE Holdings, Inc. (the "Corporation") is a corporation of the State of Delaware.
2. The Corporation is the owner of all of the outstanding shares of capital stock of Hughes Aircraft Company, a Delaware corporation (the "Subsidiary").
3. The Corporation hereby agrees to merge the Subsidiary into the Corporation (the "Merger").
4. The following are resolutions adopted by the Board of Directors of the Corporation on December 7, 1997:

*"Approval of Merger of Hughes Aircraft Company with and into the Corporation*

**RESOLVED**, that the Hughes Aircraft Company, a Delaware corporation and wholly-owned subsidiary of the Corporation (the "Subsidiary"), be merged with and into the Corporation (the "Sub Merger") pursuant to the provisions of the General Corporation Law of the State of Delaware (the "DGCL"); and

**RESOLVED**, that the Sub Merger shall be effective on the date (the "Effective Date") of the filing of the Certificate of Ownership and Merger with the Secretary of State of the State of Delaware, substantially in the form attached hereto as Annex 5; and

RESOLVED, that pursuant to Section 259 of the DGCL, upon the Effective Date, the separate existence of the Subsidiary shall cease, and the Corporation shall continue its existence as the surviving corporation; and

RESOLVED, that the appropriate officers of the Corporation be, and each of them hereby is, authorized, empowered and directed, in the name and on behalf of the Corporation, to execute and cause to be filed a Certificate of Ownership and Merger with respect to the Sub Merger with the Secretary of State of the State of Delaware."

5. The Merger shall be effective on the date of the filing of this Certificate of Ownership and Merger with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, the undersigned, for the purpose of effectuating the Merger, pursuant to the DGCL, under penalties of perjury does hereby declare and certify that this is the act and deed of the Corporation and the facts stated herein are true and accordingly has hereunto signed this Certificate of Ownership and Merger as of the 16th day of December 1997.

HE HOLDINGS, INC.

By: J. L. Williamson  
Name: J. L. Williamson  
Title: ASSISTANT SECRETARY