

03-06-2002

FORM PTO-1619A  
Expires 06/30/99  
OMB 0851-0027



U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

102004499

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

PD-92532B

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

New

Resubmission (Non-Recordation)  
Document ID# \_\_\_\_\_

Correction of PTO Error  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

Corrective Document  
Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

**Conveyance Type**

Assignment       Security Agreement

License             Change of Name

Merger               Other \_\_\_\_\_

**U.S. Government**  
(For Use ONLY by U.S. Government Agencies)

Departmental File     Secret File

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

Name (line 1) HUGHES AIRCRAFT COMPANY

Name (line 2) a Corporation of Delaware

Execution Date  
Month Day Year  
12-08-1995

**Second Party**

Name (line 1) \_\_\_\_\_

Name (line 2) \_\_\_\_\_

Execution Date  
Month Day Year  
\_\_\_\_\_

**Receiving Party**

Mark if additional names of receiving parties attached

Name (line 1) HE HOLDINGS, INC.

Name (line 2) a Corporation of Delaware

Address (line 1) Patents & Licensing

Address (line 2) 7200 Hughes Terrace, Bldg. CO/C01

Address (line 3) Los Angeles California 90045  
City State/Country Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name \_\_\_\_\_

Address (line 1) \_\_\_\_\_

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

Address (line 4) \_\_\_\_\_

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0851-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0851-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

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

FORM PTO-1619B  
Expires 08/30/99  
OMB 0651-0027

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U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**Correspondent Name and Address** Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

**Pages** Enter the total number of pages of the attached conveyance document including any attachments. #

**Application Number(s) or Patent Number(s)**  Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="5.551.302"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number  PCT  PCT   
 only if a U.S. Application Number  PCT  PCT   
 has not been assigned.

**Number of Properties** Enter the total number of properties involved. #

**Fee Amount** Fee Amount for Properties Listed (37 CFR 3.41): \$

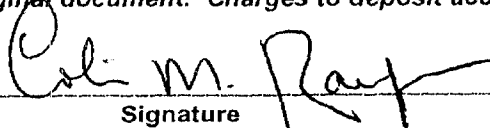
Method of Payment: Enclosed  Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)  
 Deposit Account Number: #

Authorization to charge additional fees: Yes  No

**Statement and Signature**

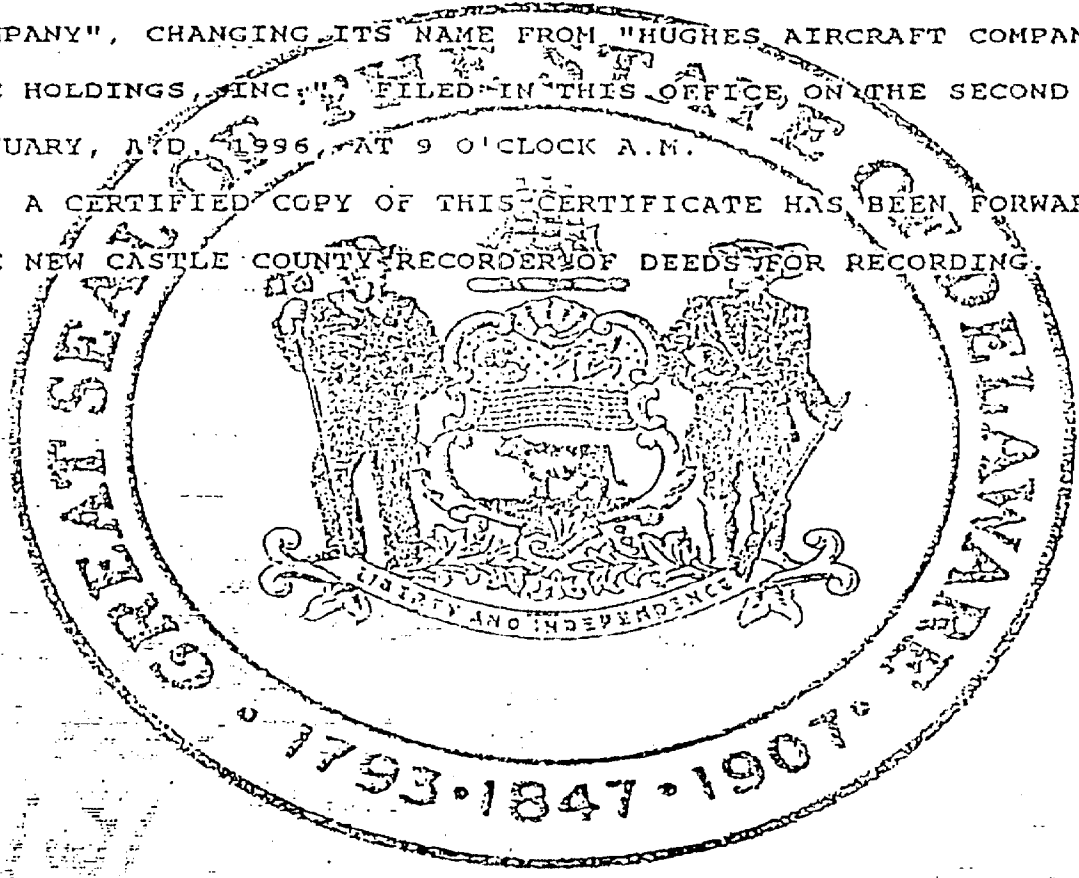
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.*

Colin M. Raufer, Reg. No. 40,781  March 27, 2001  
 Name of Person Signing Signature Date

State of Delaware  
Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "HUGHES AIRCRAFT COMPANY", CHANGING ITS NAME FROM "HUGHES AIRCRAFT COMPANY" TO "HE HOLDINGS, INC." FILED IN THIS OFFICE, ON THE SECOND DAY OF JANUARY, A.D. 1996, AT 9 O'CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



*Edward J. Freel*

Edward J. Freel, Secretary of State

0472015 - 8100

960000711

AUTHENTICATION:

7774686

DATE:

01-02-96

CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION  
OF  
HUGHES AIRCRAFT COMPANY

Hughes Aircraft Company, a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, does hereby certify:

FIRST: That the sole stockholder of the Corporation did consent to and adopt the following resolution setting forth a proposed amendment to the Certificate of Incorporation of the Corporation:

RESOLVED, That Article 1 of the Certificate of Incorporation of this corporation is hereby amended to read as follows:

"1. The name of the corporation is HE Holdings, Inc."

SECOND: That this amendment was duly adopted in accordance with the provisions of Section 242 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said corporation has caused this certificate to be signed by its Chairman of the Board and attested by its Secretary this 8<sup>th</sup> day of December, 1995.

HUGHES AIRCRAFT COMPANY

By: *M. T. Smith*  
M. T. Smith  
Chairman of the Board

Attest:

By: *R. M. Hall*  
R. M. Hall  
Secretary

1/3

RICHARDS LAYTON & FINGER

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 03:20 PM 12/17/1997  
971434564 - 0472015

002

CERTIFICATE OF MERGER

OF

RAYTHEON COMPANY

WITH AND INTO

HE HOLDINGS, INC.

Under Section 251

of

the Delaware General Corporation Law

THE UNDERSIGNED, HE Holdings, Inc. ("Defense") and Raytheon Company ("Raytheon"), in connection with the merger of Raytheon with and into Defense (the "Merger"), hereby certify as follows:

FIRST: The name and the state of incorporation of each of the constituent corporations are:

<u>Name</u>	<u>State of Incorporation</u>
HE Holdings, Inc.	Delaware
Raytheon Company	Delaware

SECOND: An agreement and plan of merger relating to the Merger (the "Agreement of Merger") has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations in accordance with Section 251 of the Delaware General Corporation Law.

THIRD: The name of the surviving corporation of the Merger is HE Holdings, Inc.

FOURTH: The Certificate of Incorporation of the surviving corporation shall be the Amended and Restated Certificate of Incorporation of HE Holdings, Inc. as filed with the Secretary of State of Delaware on December 12, 1997; provided, however, that Article I thereof shall be amended and restated as of the effectiveness of the Merger to read as follows:

02/14/02 14:58 FAX 3106472616

12/17/97 WED 15:39 FAX 302 856 8848

RICHARD'S LANTON & FINGER

003

Article I  
Name

The name of the corporation (which is hereafter referred to as the "Corporation") is Raytheon Company.

FIFTH: The merger shall be effective at and as of 5:00 p.m. (Eastern Time) on December 17, 1997.

SIXTH: The executed Agreement of Merger is on file at the principal place of business of the surviving corporation at 141 Spring Street, Lexington, Massachusetts 02173. *at 4/17/98*

SEVENTH: A copy of the Agreement of Merger will be furnished by the surviving corporation, on request and without cost, to any stockholder of either constituent corporation.

IN WITNESS WHEREOF, the undersigned corporations have duly executed this Certificate this 17th day of December 1997.

RAYTHEON COMPANY

By:

*Thomas D. Hyde*  
Name: THOMAS D. HYDE  
Title: VICE PRESIDENT AND GENERAL COUNSEL

HB HOLDINGS, INC.

By:

*J. L. Williamson*  
Name: J. L. WILLIAMSON  
Title: ASSIST. SECRETARY

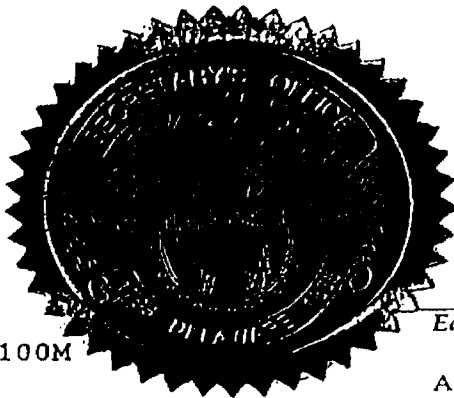
State of Delaware  
Office of the Secretary of State

PAGE 1

I, EDWARD J. FREEL, 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.

FAX COPY RECEIVED  
FEB 14 2002  
TECHNOLOGY CENTER 2800



*Edward J. Freel*

Edward J. Freel, Secretary of State

9413672

AUTHENTICATION:

11-18-98

DATE:

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PATENT  
REEL: 012621 FRAME: 0711

*State of Delaware*  
*Office of the Secretary of State*

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:  
"RAYTHEON COMPANY", A DELAWARE CORPORATION,  
WITH AND INTO "HE HOLDINGS, INC." UNDER THE NAME OF "RAYTHEON COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED, IN THIS OFFICE THE SEVENTEENTH DAY OF DECEMBER, A.D. 1997, AT 3:20 O'CLOCK P.M.



*Edward J. Freel*  
\_\_\_\_\_  
Edward J. Freel, Secretary of State

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981109838

AUTHENTICATION: 8985779  
DATE: 03-23-98



12/18/97 TUE 12:04 FAX 302 658 8548

RICHARDS LAYTON & FINGER

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 12:00 PM 12/18/1997  
971430861 - 0472015 002

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

State of Delaware  
Office of the Secretary of State

PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"RAYTHEON COMPANY", A DELAWARE CORPORATION,  
WITH AND INTO "HE HOLDINGS, INC." UNDER THE NAME OF  
"RAYTHEON COMPANY", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SEVENTEENTH DAY OF DECEMBER, A.D. 1997, AT 3:20 O'CLOCK P.M.



*Edward J. Freel*

Edward J. Freel, Secretary of State

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981318002

AUTHENTICATION: 9259021

DATE: 08-18-98