

08-03-2004

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Form PTO-1595  
(Rev. 10/02)



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

OMB No. 0651-0027 (exp. 6/30/2005)

102804594

Tab settings

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  No

2. Name and address of receiving party(ies)

Name: HE Holdings, Inc., a Delaware Corp.

Internal Address: Patents and Licensing

Building CO/CO1

Street Address: 7200 Hughes Terrace

City: Los Angeles State: CA Zip: 90045

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 12/08/1995

Additional name(s) & address(es) attached?  Yes  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) \_\_\_\_\_

B. Patent No.(s) See Attached

Additional numbers attached?  Yes  No

536 4489

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

Name: Raytheon Company

Internal Address: Patent Docket Administration

EO/EO4/N119

Street Address: 2000 E. El Segundo Boulevard

P.O. Box 902

City: El Segundo State: CA Zip: 90245-0902

6. Total number of applications and patents involved: 11

7. Total fee (37 CFR 3.41).....\$ 4,680.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

50-2077

OPR/FINANCE  
JUL 28 AM 8 17

DO NOT USE THIS SPACE

9. Signature.

John E. Gunther, 43,649

Name of Person Signing

Signature

July 28, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 12

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

08/02/2004 MGETACHE 00000164 502077 5364489

01 FC:8021 4680.00 DA

RECORDATION FORM COVER SHEET  
PATENTS ONLY  
CONTINUATION SHEET

## PATENT NUMBER

5,364,489	5,365,368	5,365,746
5,366,178	5,368,254	5,368,255
5,369,367	5,486,382	5,490,093
5,493,679	5,525,997	5,535,314
5,543,628	5,724,049	5,726,664
4,603,430	4,677,392	4,682,149
4,686,648	4,700,068	4,722,496
4,724,368	4,724,531	4,727,255
4,732,349	4,733,238	4,739,401
4,741,617	4,768,866	4,770,369
4,771,267	4,792,214	4,794,343
4,795,993	4,796,187	4,821,044
4,824,228	4,832,433	4,843,331
4,847,795	4,848,208	4,849,651
4,854,726	4,888,663	4,891,688
4,903,603	4,908,875	4,911,046
4,922,379	4,922,381	4,925,125
4,929,951	4,935,881	4,960,068
4,961,313	4,961,545	4,962,689
4,970,936	4,975,864	4,978,413
4,980,690	5,020,113	5,071,333
5,077,979	5,078,069	5,080,300
5,082,199	5,087,921	5,092,036
5,093,563	5,093,869	5,096,139
5,104,057	5,105,255	5,106,033
5,116,451	5,118,050	5,122,067
5,123,608	5,123,610	5,125,131
5,125,590	5,125,980	5,129,990

RECORDATION FORM COVER SHEET  
PATENTS ONLY

CONTINUATION SHEET

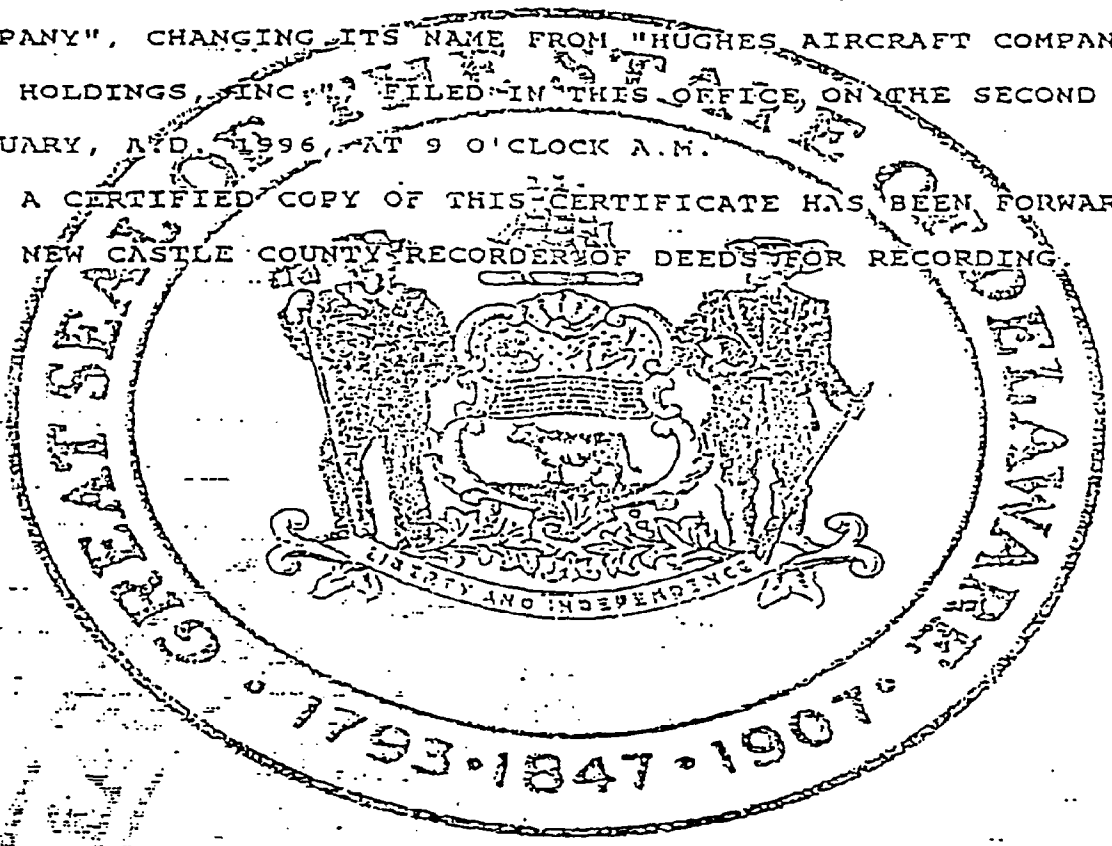
PATENT NUMBER

5,135,183	5,140,659	5,143,319
5,144,422	5,148,358	5,149,906
5,149,970	5,150,128	5,150,426
5,154,366	5,155,801	5,161,051
5,161,208	5,164,994	5,167,382
5,278,924	5,279,199	5,279,474
5,282,087	5,283,687	5,293,121
5,293,811	5,297,748	5,302,780
5,307,071	5,309,718	5,310,134
5,311,437	5,313,784	5,321,798
5,322,241	5,323,334	4,937,878

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

4019

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

RICHARDS LAYTON & FINGER

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

0002

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:

2/17/87 WED 13:38 PM 102 454 8848

NICHOLAS LAYTON & 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 (H)*

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

HE HOLDINGS, INC.

By:

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

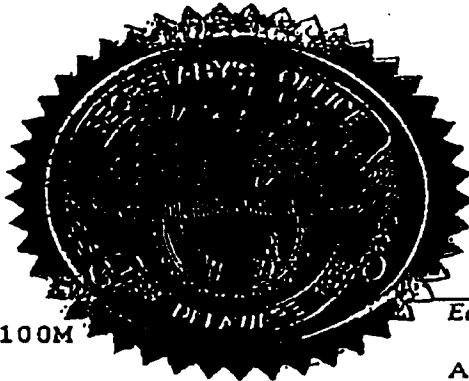
State of Delaware  
Office of the Secretary of State

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:

0472015 8100M

981444070



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

0472015 8100M

981109838

AUTHENTICATION: 8985779

DATE: 03-23-98

8/97 TUE 12:04 FAX 302 038 6548

RICHARDS LAYTON & FINGER

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 12:00 PM 12/16/1997  
971430861 - 0472013

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

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.



0472015 8  
981318002

  
Edward J. Freel, Secretary of State

AUTHENTICATION: 9259021  
DATE: 08-18-98

RECORDED: 07/28/2004

PATENT  
REEL: 015596 FRAME: 0669