06-25-2004



| Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings ⇔ ⇔ ♥ | 102777580 | U.S. DEPARTME U.S. Patent | |
|---|--|--------------------------------|------------------------|
| | of Patents and Trademarks: Please record the a | attached original documents or | copy thereof. |
| Name of conveying party(ies): HE Holdings, Inc. dba Hughes Electronics | 2. Name and Name: Ra | address of receiving part | |
| Additional name(s) of conveying party(ies) | attached? Yes ✓ No ———— | | |
| 3. Nature of conveyance: | | | |
| Assignment Security Agreement | ✓ Merger Change of Name Street Add | ress: 870 Winter Street | |
| Other | | | |
| 40474007 | City: Walt | ham State: MA | zip:_02451- |
| 12/17/1997 Execution Date: | Additional nan | ne(s) & address(es) attached? | Yes [✓ |
| 4. Application number(s) or patent | | | |
| A. Patent Application No.(s) | gether with a new application, the exec | lo.(s) 5642364, 57177 | '02 |
| | Additional numbers attached? Yes | | |
| Name and address of party to wheeler concerning document should be in | | r of applications and pate | nts involve |
| Name: Raytheon Company | | CFR 3.41)\$ | 0.00 |
| Internal Address: EO / E04 / N1 | ** | | |
| Intellectual Property & Licensin | ng Authoriz | zed to be charged to dep | sit accour |
| Street Address: P. O. Box 902 | 8. Deposit acc 50-2077 | | DIN 22 |
| City: El Segundo State: CA Zip | p: 90245-0902 | | MANOE |
| | DO NOT USE THIS SPACE | | 32 |
| 9. Signature. | | | |
| Leonard A. Alkov, Reg. 30,021 Name of Person Signing | Zenaul (1) Signature | | <i>73, 2-0</i> Date |
| | ber of pages including cover sheet, attachments cuments to be recorded with required cover sheet | information to: | |
| 04 ECDBPER 00000051 502077 5642364 21 80.00 DA | Commissioner of Patente & Trademarks Boy Assign | ments | |

PATENT REEL: 015487 FRAME: 0648

State of Delaware Office of the Secretary of State

PAGE

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 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.



Warriet Smith Windsor. Harriet Smith Windsor

0472015 8100M

010274558

AUTHENTICATION: 1177437

DATE: 06-07-01

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REEL: 015487 FRAME: 0649

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

CERTIFICATE OF MERGER

OF

RAYTHEON COMPANY

WITH AND INTO

HE HOLDINGS, INC.

Under Section 251

ΟÍ

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:

Name

State of Incorporation

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 HR 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:

PATENT

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"Article I Name

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

p.m. (Eastern Time) on December 17, 1997.

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

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: Words Tuesday

Title: VICE PRESIDENT AND CENERAL COURSEL

HE HOLDINGS, INC.

Name: J.L. Williamson

Title: ASSIST. SECRETARY

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PATENT | REEL: 015487 FRAME: 0651