FURINI PTO-1019A	7-14-2000	U.S. Department of Commerce Patent and Trademark Office				
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UFR/FHIAKOF	101403557					
RECORDA	ATION FORM COVER SHEET PATENTS ONLY					
TO: The Commissioner of Patents and Trademark	s: Please record the attached original doc	cument(s) or copy(ies).				
Submission Type 6/9 00	Conveyance Type	_				
New New	Assignment Security Age	eement				
Resubmission (Non-Recordation) Document ID#	License Change of N	ame				
Correction of PTO Error Reel # Frame #	Merger X Other	(SEE ATTACHED)				
Corrective Document	U.S. GOVERNME (For Use ONLY by U.S. Governme	ent Agencies)				
Reel # Frame #	Departmental File	Secret File				
Conveying Party(ies)	Mark if additional names of conveying pa	rties attached Execution Date Month Day Year				
Name (line 1) HE Holdings, Inc. dba Hu	ighes Electronics	12171997				
Name (line 2) a corporation of Delawa	re	Execution Date				
Second Party Name (line 1)		Month Day Year				
Name (line 2)						
Receiving Party	Mark if additional names	of receiving parties attached				
Name (line 1) Raytheon Company If document to be recorded is an assignment and the						
Name (line 2) a corporation of Del	(line 2) a corporation of Delaware receiving party is not domiciled in the United States, an appointment of a domestic					
Address (line 1) Office of the General Counsel (Designation must be a						
Address (line 2) 141 Spring Street	Idress (line 2) 141 Spring Street separate document from Assignment.)					
Address (line 3) Lexington	Massachusetts 02	421				
Domestic Representative Name and Ad	idroce	p Code				
	Enter for the first Receiving Pa	ary only.				
Name						
Address (line 1)						
Address (line 2)						
Address (line 3)						
Address (line 4)						
/13/2000 SHITTO / 00000005 300616 5214922 F	OR OFFICE USE ONLY					
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Public burden reporting for this collection of information is estimated to avgathering the data receipt to complete the Cover Sheet. Send comments in						

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

Attachment(s)

PATENT REEL: 010909 FRAME: 0006

90572:he/rayth/correct

FORM PTO Expires 06/30/99 OMB 0651-0027	9-1619B	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT		
Correspondent Name and Address Area Code and Telephone Number 8055622108					
Name [Ravtheon Company	•			
Address (line 1)	Intellectual Prope	erty & Licensing, EO/E0	1/E150		
Address (line 2)	2000 East El Segur	ndo Boulevard			
Address (line 3)	P. O. Box 902				
Address (line 4) El Segundo, California 90245-0902					
Pages Enter the total number of pages of the attached conveyance document including any attachments. # 3					
	Number(s) or Patent Nun		ark if additional numbers attached		
		Patent Number (DO NOT ENTER BOTH nur			
Pate	ent Application Number(s)		Patent Number(s)		
		5214922			
	7 [
	being filed together with a new Pater transfer to be being filed together with a new Pater transfer to be being filed together with a new Pater to be being filed together with a new Pater together wit	nt Application, enter the date the patent app	plication was <u>Month Day Year</u>		
Patent Cooperation Treaty (PCT)					
Enter PCT application number PCT PCT PCT PCT PCT PCT					
only if a U.S. Application Number PCT PCT PCT					
has not been assigned.					
Number of Properties Enter the total number of properties involved. # 1					
Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40					
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: # 500616					
	A	uthorization to charge additional fees	s: Yes X No		
Statement an	nd 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.					
Willi	am C. Schubert	Uhllan Cohu	W 6-16-2000		
Name o	of Person Signing	Signature	Date		

90572:he/rayth/correct

Attachment

U.S. Department of Commerce FORM PTO-1619A Patent and Trademark Office Expires 06/30/99 OMB 0651-0027 **PATENT** RM COVER SHEET **IS ONLY** TO: The Commissioner of Patents and Trademark Please record the attached original document(s) or copy(ies) Conveyance Type Submission Type X **Assignment Security Agreement** New **Resubmission (Non-Recordation)** License Change of Name Document ID# Correction of PTO Error Merger Other Reel # Frame # U.S. Government (For Use ONLY by U.S. Government Agencies) Corrective Document Reel # Frame # Departmental File **Secret File** Conveying Party(ies) Mark if additional names of conveying parties attached ^l Execution Date Month Day Year Name (line 1) 12171997 HE Holdings, dba Hughes Electronics Inc. Name (line 2) a corporation of Delaware Execution Date Month Day Year Second Party Name (line 1) Name (line 2) **Receiving Party** Mark if additional names of receiving parties attached If document to be recorded Name (line 1) Raytheon Company is an assignment and the receiving party is not domiciled in the United Name (line 2) a corporation of Delaware States, an appointment of a domestic representative is attached. Address (line 1) Office of the General Counsel (Designation must be a separate document from Address (line 2) Assignment.) 141 Spring Street Massachusetts 02421 Address (line 3) Lexington State/Country **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 gethering 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 (0651-0027), Washington, D.C. 20803. See OMB Information Collection Budget Package 0651-0027, 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

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REEL: 010909 FRAME: 0008

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FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	FEB 7	U.S. Department of Commerce Patent and Trademark Office PATENT		
Correspondent Name and Address A	ea Code and Telephon	e Number 8055	6622108		
Name Ravtheon Company		recording to the second			
Address (line 1) Intellectual Property	& Licensing, E	O/E01/E150			
Address (line 2) 2000 East El Segundo Boulevard					
Address (line 3) P. O. Box 902					
Address (line 4) El Segundo, California 90245-0902					
Pages Enter the total number of pages including any attachments.	of the attached convey	ance document	# 3		
Application Number(s) or Patent Numbe	r(s)	Mark if additio	nai numbers attached		
Enter either the Patent Application Number or the Paten	t Number (DO NOT ENTER B				
Patent Application Number(s)	1	Patent Nun	nber(s)		
	5214992				
If this document is being filed together with a <u>new</u> Patent Ap signed by the first named executing inventor.	oplication, enter the date the p	patent application was	Month Day Year		
Patent Cooperation Treaty (PCT)					
Enter PCT application number	CT PC	:1 [PCT		
only if a U.S. Application Number P has not been assigned.	CT PO	т	PCT		
Number of Properties	number of properties in	volved. #	1		
Fee Amount Fee Amount for	D	ED 244). \$ (40		
	Properties Listed (37 C				
Method of Payment: Enclose Deposit Account	d Deposit Accor	unt 🔀			
(Enter for payment by deposit account or if additional fees can be charged to the account.)					
Depo	sit Account Number:	# 50	00616		
Auth	norization to charge additi	onal 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.					
William C. Schubert	Willow C	Scholat	02-03-00		
Name of Person Signing	Signature		Date		

90572:he/ray

RICHARDS LAYTON & FINGER

STATE OF DELAWARE 0002 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

ο£

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 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:

Doc. VI.A.12

NYFS07...:\56\53356\0054\2011\CRT0Z77P.09A

PATENT REEL: 010909 FRAME: 0010

'Article I Name

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

FIFTM: The merger shall be effective at and as of 5:00 p.m. (Rastern 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 Marger 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.

RAYTHEGN COMPANY

Name: Thomas D. Hyde

Ticle: VICE PRESIDENT AND CENERAL

HE HOLDINGS, INC.

Avr.

Nate: J.L. Williamson Ticle: Asses, Societacy

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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, Secretary of State

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AUTHENTICATION:

8985779

DATE:

03-23-98

PATENT REEL: 010909 FRAME: 0012



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ATES OF MARKET

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RAYTEHON COMPANY WILLIAM C. SCHUBERT INTELLECTUAL PROP. & LIC., EO/E01/E150 2000 EAST EL SEGUNDO BLVD., P.O. BOX 902 EL SEGUNDO, CA 90245-0902 UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/07/2000

REEL/FRAME: 010602/0148

NUMBER OF PAGES: 5

BRIEF: MERGER (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HE HOLDINGS, INC. DBA HUGHES

ELECTRONICS

DOC DATE: 12/17/1997

ASSIGNEE:

RAYTHEON COMPANY 141 SPRING STREET OFFICE OF THE GENERAL COUNSEL LEXINGTON, MASSACHUSETTS 02421

SERIAL NUMBER: 07645195 PATENT NUMBER: 5214992 FILING DATE: 01/24/1991 ISSUE DATE: 06/01/1993

KIMBERLY WHITE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Raytheon distribution: Assignment Division, USPTO, w/attmts 6/15/00--to correct error

PATENT REEL: 010909 FRAME: 0013 RICHARDS LAYTON & FINGER

STATE OF DELAWARE 0002
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

of

the Delaware General Corporation Law

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Raytheon Company

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Doc. VI.A.12

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

RAYTHEON COMPANY

Name: Trumes D. Wuda

Title: VICE PRESIDENT AND CENERAL

HE HOLDINGS, INC.

By: Of L Wa

Nage: J.L. Williamson Title: Assist. Socketaly

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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
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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, Secretary of State

0472015 8100M

RECORDED: 06/19/2000

981109838

AUTHENTICATION:

8985779

DATE:

03-23-98

PATENT

REEL: 010909 FRAME: 0016