

12-06-2001

Docket No.: 20776-22

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



101908411

10-19-01

Tab settings

attached original documents or copy thereof.

1. Name of conveying party(ies):

The Boeing Company

2. Name and address of receiving party(ies):

Name: DRS Sensors & Targeting Systems, Inc.

Address: 3330 East Miraloma Avenue; Bldg. 222

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

City: Anaheim

State/Prov.: CA

Country: USA

ZIP: 92803

Execution Date: September 26, 2001

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

09/326,937

06/07/1999

4,060,314

4,568,957

4,755,731

09/518,344

03/03/2000

4,323,901

4,568,960

4,900,367

09/637,383

08/11/2000

4,452,646

4,586,068

4,948,108

09/713,043

11/15/2000

4,552,740

4,586,074

4,956,555

Additional numbers

☒ Yes ☐ No

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

Name: Davy E. Zoneraich, Esq.

Registration No. 37,267

Address: P.O. BOX 1018

721 Route 202/206

City: Somerville

State/Prov.: NJ

Country: USA

ZIP: 08876-1018

6. Total number of applications and patents involved: 33

7. Total fee (37 CFR 3.41): \$ 1,320.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

14-1263

(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

Davy E. Zoneraich

Name of Person Signing

Signature

October 19, 2001

Date

15

Total number of pages including cover sheet, attachments, and

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

PATENT
REEL: 012333 FRAME: 0280

Recordation Form Cover Sheet (Continuation)
PATENTS ONLY

Docket No.: 20776-22

Conveying Party: The Boeing Company

Receiving Party: DRS Sensors & Targeting Systems, Inc.

4. Application number(s) or patent number(s) (continued):

A.	Patent Application No.:	Filing Date:
	09/836,785	04/17/2001
	PCT/US00/13431	05/16/1998

B. Patent No.(s)
4,962,304
4,962,309
5,143,334
5,157,258
5,198,671
5,319,521
5,448,676
5,585,624
5,600,140
5,610,389
5,627,112
5,714,760
6,122,102
6,236,508
6,252,229

ASSIGNMENT OF PATENTS AND OTHER INTELLECTUAL PROPERTY

This Assignment of Patents and other Intellectual Property, effective as of September 28, 2001, ("Agreement") by and among The Boeing Company, a Delaware corporation ("Boeing"), having a place of business at 2201 Seal Beach Blvd, Seal Beach, CA 90740-1515 and the subsidiaries listed on the signature page of this Agreement (together with Boeing, the "Assignor") and DRS Sensors & Targeting Systems, Inc., a Delaware corporation having a place of business at 3330 East Miraloma Avenue, Bldg. 222, Anaheim, CA 92803 ("Assignee").

WHEREAS, Assignor is the owner of the patents, patent applications, marks and other intellectual property set forth on Exhibit A hereto and the inventions disclosed and claimed therein ("Intellectual Property");

WHEREAS, pursuant to the Intellectual Property Agreement, dated as of August 3, 2001, between DRS Technologies, Inc., a Delaware corporation ("DRS") and Boeing ("IP Agreement"), Assignor is obligated to transfer the Intellectual Property to DRS;

WHEREAS, Assignee is a wholly owned subsidiary of DRS Sensor Systems, Inc., a Delaware corporation, which is a wholly owned subsidiary of DRS; and

WHEREAS, DRS has requested that Assignor assign the Intellectual Property to Assignee and Assignor has agreed to such request.

NOW, THEREFORE, effective as of the date hereof, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby assign unto Assignee, its successors and assigns all of its right, title, and interest in and to the following Intellectual Property set forth on Exhibit A, hereto, in accordance with the terms of the IP Agreement:

(i) the patents and patents applications and all national applications which may result from any regional applications, including but not limited to any Patent Cooperation Treaty Applications or European Patent Applications, including all country designations thereof, and all reissues divisions, reexaminations, continuations, continuations-in-part, or extensions of the foregoing;

(ii) trademarks, trademark registrations, and trademark applications, trade names, Internet domain names, service marks and service mark

registrations and applications, and the goodwill symbolized thereby and associated therewith;

(iii) copyrights and copyright registrations and copyright applications;

(iv) computer programs and other computer software (including implementations of algorithms, models and methodologies, in source code and object code, databases and compilations, all work product and documentation;

(v) technology, know-how, trade secrets, proprietary processes, methods, algorithms, and formulae;

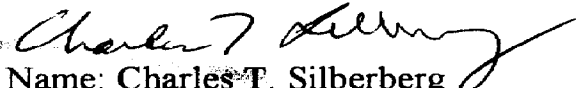
(vi) all causes of actions, claims and demands or other rights for, or arising from, any infringement, including the right to sue and recover for any past, present or future infringement of the foregoing Intellectual Property and related claims, including the right to sue for injunctive relief and to collect damages arising out of or in connection with any past, present or future infringements; and

(vii) all rights corresponding thereto throughout the world.

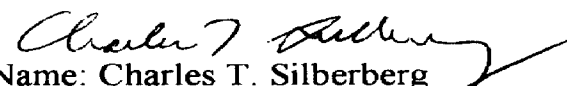
From time to time after the date hereof, at the request of the other party hereto (which for such purposes, shall include any successor to such party or to substantially all its assets), and at the expense of the party so requesting (except as may otherwise be provided in Schedule 4.2 to the IP Agreement), each of the parties hereto shall execute and deliver to such requesting party such documents and take such other action as such requesting party may reasonably request in order to consummate more effectively the transactions contemplated hereby.

IN WITNESS WHEREOF, the undersigned has caused this
Assignment to be duly executed by its authorized officer as of September 26, 2001.

THE BOEING COMPANY

By: 
Name: Charles T. Silberberg
Title: Assistant Secretary

MCDONNELL DOUGLAS CORPORATION.

By: 
Name: Charles T. Silberberg
Title: Assistant Secretary

Accepted and Acknowledged:

DRS TECHNOLOGIES, INC.

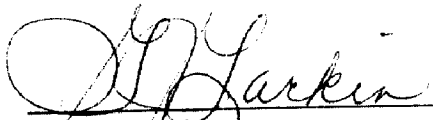
By: 
Name: Nina Laserson-Dunn
Title: Executive Vice President,
General Counsel & Secretary

Acknowledgment

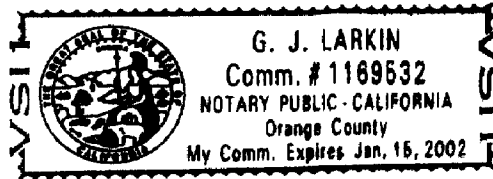
State of California)
)SS
County of Orange)

On September 26, 2001 before me, G. J. Larkin, personally appeared
Charles T. Silberberg, personally known to me to be the person whose name is
subscribed to the within instrument and acknowledged to me that he executed the same in
his authorized capacities, and that by his signatures on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal.



Notary's Signature



Seal

EXHIBIT A

[see attached schedules]

**SCHEDULE A
ASSIGNED INTELLECTUAL PROPERTY**

1. Patents & Invention Disclosures

- As listed in the Annex to Schedule A Assigned Intellectual Property-Patents, Patent Applications and Disclosures

2. Trade Secrets

- Trade Secrets relating to infrared focal plane array products used or held for use for the Business as of the Closing Date, except for the Trade Secrets that pertain to infrared product production reflected on Schedule B
- Trade Secrets relating to infrared systems used or held for use for the Business as of the Closing Date, except for the Trade Secrets that pertain to infrared system production reflected on Schedule B.

3. Software

- Software deliverable in connection with products or systems of the Business in use or held for use as of the Closing Date to the extent such Software is owned by the Seller or the Seller's affiliates.

4. Business Marks

- None

Annex to SCHEDULE A

79SC069	Monolithic Voltage Controlled, Phased Array	Ho, Willie W.		2/19/1980	122,331	0	n/a	Filed	4/6/1982	4,323,901	Patent Expired 4/06/99
80SC047	Blocked Impurity Band Detectors	Stapelbroek, Maryn G.		10/23/1980	199,881	0	n/a	Filed	2/4/1986	4,568,960	
81SC081	Impurity Band Conduction Semiconductor Devices	Stapelbroek, Maryn G.		9/15/1983	06/532,332	0	n/a	Filed	4/29/1986	4,586,074	
81SC081	Impurity Band Conduction Semiconductor Devices	Stapelbroek, Maryn G.		9/13/1984	463,121	0	n/a	Filed	10/18/1988	1,243,388	
83SC022	Solid-State Photomultiplier	Kleinbans, W A.		10/7/1983	539,878	0	n/a	Filed	4/29/1986	4,586,068	
84SC012	PROCESS FOR PRODUCING AMORPHOUS AND CRYSTALLINE SILICON NITRIDE	Morgan, P ED	6/6/1997	2/22/1985	704,979	0	*	Filed	11/12/1985	4,552,740	Patent Abandoned
85SC044	Method for Making a Reticulated Temperature Sensitive Imaging Device	Gergis, I S.		11/2/1988	266,174	-1	*unknown	Filed	2/13/1990	4,900,367	
86E048	Non-Destructive Testing of MCT Detector Array	Fang, P Y., Marshall, A H.						Closed			
87SC005	Multicolor Focal Plane Arrays	Woodberry, F J.		6/30/1989	374,412	0	n/a	Filed	9/11/1990	4,956,555	
86SC013	Intrinsic Impurity Band Conduction Detectors	Stapelbroek, Maryn G.		12/23/1988	289,133	0	n/a	Filed	10/9/1990	4,962,304	
87SC028	Multicolor Infrared Focal Plane Arrays	Gluck, N S.		8/21/1989	396,154	0	n/a	Filed	10/20/1992	5,157,258	
90E033	Apparatus for Large Area Infrared Focal Plane	Gable, A L., et al.		6/17/1991	716,476			Filed	3/30/1993	5198671	33870

Annex to SCHEDULE A
ASSIGNED INTELLECTUAL PROPERTY – PATENTS, Patent Applications and DISCLOSURES

90E034	Low Moving Mass Two Axis Gimbal	Sardou, F D.	8/6/1990	5/21/1991	703645		DASG60-87-C-0031	Filed	9/1/1992	5143334	33702	Patent Abandoned - Expiration Date: 09/01/96
90E034 EPO	Low Moving Mass Two Axis Gimbal	Sardou, F D.		4/7/1992	92105993.7	-1		Filed				Abandoned
91E031	Ceramic Frames and Capsules for Z-Axis Modules	Adkins, Larry R.	7/22/1991	8/17/1992	930,630	-1	DASG60-90-C-0136	Filed	6/7/1994	5,319,521	34317	
93E008	Vertical Collecting Infrared Detectors	D'Souza, A	2/23/1993			-1	DASG60-87-C-0038	Closed				
94E012	Electronically Switched Micro Bolometer Bridge ROIC	Howard, Philip E.	3/3/1994			0	n/a	Authorized				
94E015	Apparatus and Method for Mounting and Stabilizing a Hybrid Focal Plane Array	Asatourian, R K., et al.		3/23/1995	409230			Filed	12/17/1996	5585624	35235	
94E015 EPO	Apparatus and Method for Mounting and Stabilizing a Hybrid Focal Plane Array	Asatourian, R K., et al.		9/16/1996	96114824							Abandoned
94E017	Sealed-Cavity Microstructure and Microbolometer and Associated Fabrication Methods	Fitzgibbons, E T., et al.		7/10/1998	113,472	0	n/a	Filed	6/26/2001	6,252,229		
94E017A DIV	Sealed-Cavity Microstructure and Microbolometer and Associated Fabrication Methods	Fitzgibbons, E T., et al.		4/17/2001	09/836,785			Filed				Pending
94E017 WO	Sealed-Cavity Microstructure and Microbolometer and Associated Fabrication	Fitzgibbons, E T., et al.						Filed				PCT Application Abandoned

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Annex to SCHEDULE A

	Methods																			
94E039	Stabilized Hybrid Focal Plane Array Structure	Asatourian, R K.			3/23/1995	409229														
94E039 EPO	Stabilized Hybrid Focal Plane Array Structure	Asatourian, R K.			9/13/1996	96114741														EPO Application Pending
94SC055	Method of Making Suspended Microstructures	Gergis, I S.			11/13/1995	555668	0	n/a												
94SC055 AU	Method of Making Suspended Microstructures	Gergis, I S.			11/1/1996	7056596														
94SC055 CA	Method of Making Suspended Microstructures	Gergis, I S.			11/12/1996	2190077														Canadian Appl Pending
94SC055 EPO	Method of Making Suspended Microstructures	Gergis, I S.			10/16/1996	96115692														EPO Appl Pending
94SC055 JP	Method of Making Suspended Microstructures	Gergis, I S.			11/12/1996	300344/1996														Japanese Appl Pending
95E005	Imbalanced Composite Focal Plane Array	Asatourian, R K.		1/27/1995	6/7/1995	481000	0	n/a												
95E005 CIP	Imbalanced Composite Focal Plane Array	Asatourian, R K.			6/24/1996	666076														
95E005 EPO	Imbalanced Composite Focal Plane Array	Asatourian, R K.			9/16/1996	96114825														EPO Appl Pending
95E005 CIP/EPO	Imbalanced Composite Focal Plane Array	Asatourian, R K.			6/24/1997	97110303														EPO CIP Appl Pending
95E035	Vertical Collecting Infrared Detectors	D'Souza, A I.		4/17/1995			0	n/a										Closed		

Annex to SCHEDULE A

95E130	Multi-Spectral IR Sensor Using Single Focal Plane Array	Gubala, M B., et al.							Closed				Case Number changed: 95E132 does not exist - should be 95E130
95SC082	Use of Manganate Perovskite Compounds as Bolometers	DeWames, R E.	10/3/1995			0	n/a		Closed				
96E064	Integrated Thermo-Electric Cooler/Vacuum Package	Costa, R D.	7/8/1996			0	n/a		Closed				
96SC010	Semiconductor Multi Heterojunction Thermal Detecto Detectors and Focal Plane Arrays	Sullivan, G J.	2/2/1996			0	n/a		Closed				
97BN004	Micromechanical Heat Switch Integrated into Suspended Thermal Detectors	Gergis, I S.	5/13/1997			0	n/a		Closed				
97BN014	Magnetron Sputtering of VOx for Infrared Microbolometers	Kobrin, P	10/6/1997			0	n/a		Open				
97E008	MULTICOLOR FOCAL PLANE ARRAY USING MICROLENSES	Stapelbroek, Maryn G.		3/3/1999	262,143				Filed	5/22/2001	6,236,508	1/12/01	
97E008 WO	MULTICOLOR FOCAL PLANE ARRAY USING MICROLENSES	Stapelbroek, Maryn G.		3/3/2000	PCT/US00/05632								PCT Appl Pending
98-235	An Optimized Pixel Structure for Microbolometer-Based High-Performance Uncooled IR Focal Plane Array	Han, Chien-Jin	5/21/1998	6/7/1999	09/326,937				Filed				

Annex to SCHEDULE A
ASSIGNED INTELLECTUAL PROPERTY - PATENTS, Patent Applications and DISCLOSURES

	Devices								
99-261	Micro-Device Universal Process Tray	Brood, Ronald L.	8/23/1999					Closed	
00-122	Novel Pixel Architecture For Microbolometer Uncooled IR Focal Plane Array Devices	Ionescu, Adrian C.	4/4/2000					Authorized	
93E006	Integrated Single Chip Nuclear Hardened Focal Plane Readout Pixel Structure Having a Bolometer with Spaced Apart Absorber and Transducer Layers and an Associated Fabrication Method Reference	Chiaverini, D J., et al.						Closed	
98-235 WO	Bolometer with Spaced Apart Absorber and Transducer Layers and an Associated Fabrication Method	Chien-Jin Han E.T. Fitzgibbons.	5/21/98	5/16/98	PCT/US00/13431				
99-495 US	Bolometer and Associated Fabrication Methods	Ronald L. Brood	12/23/99	11/15/00	09/7/13,043				

SCHEDULE B
EXCLUSIVE INTELLECTUAL PROPERTY

1. **Patents & Invention Disclosures**
 - As listed in the Annex to Schedule B Exclusive Intellectual Property – Patents, Patent Applications and Disclosures
2. **Trade Secrets**
 - Trade Secrets relating to production of infrared products and infrared systems.
 - Trade Secrets embodied in the deliverable Software set forth on Schedule A.
3. **Software**
 - None
4. **Business Marks**
 - None

Annex to SCHEDULE B
EXCLUSIVE INTELLECTUAL PROPERTY – PATENTS, Patent Applications and DISCLOSURES

R-7231	METHOD OF MAKING PLANAR III-V COMPOUND DEVICE BY ION IMPLANTATION			2/7/1983					Filed	6/5/1984	4,452,646		
R-7344	GaAs COMPLEMENTARY ENHANCEMENT MODE JUNCTION FIELD EFFECT TRANSISTOR STRUCTURES AND			1/16/1984					Filed	2/4/1986	4,568,957		
R-7465	OPTICAL SCANNING TRANSDUCER			1/15/1987					Filed	7/5/1988	4,755,731		
R-7740	CIRCUIT BOARD SUPPORT DEVICE			5/23/1988					Filed	#####	4,948,108		
R-7811	AN ELECTRO-OPTICAL CONTACT ASSEMBLY			6/21/1993					Filed	9/5/1995	5,448,676		
R-8866	SIGHTING APPARATUS FOR AIMING AN OPTICAL DEVICE	Gehris, James D., et al.		2/20/1998		027,097			Filed	#####	6,122,102	5/10/2000	
75R007	Two axes remote mirror mount	Heinz, T. A.		6/28/1976		700,430			Filed	#####	4,060,314		
86R052	Magnetic optics adaptive technique	Laeger, H		8/21/1989		396,192			Filed	#####	4,962,309		
92E068	Cryogenic Infrared Scenary Simulation Device	Adachi, I. P.	8/5/1992						Closed				
92E097	Novel Method of Discriminating Infrared Color Band in Targets in Gamma Field Using Faceted Filters	Sheeks, Oliver P.	10/30/1992						Closed				
98-316	Temperature Compensated Response and Offset Correction (TECOMP)	Howard, Philip E.	7/15/1998	3/3/2000		09/518,344			Filed				
98-316 EPO	Temperature Compensated Response and Offset Correction (TECOMP)	Howard, Philip E.		2/16/2001		01200553.4			Filed				EPO Appl Pending
98-316 JP	Temperature Compensated Response and Offset Correction (TECOMP)	Howard, Philip E.		3/2/2001		058540/2001			Filed				Japanese Appl Pending
99-238	Solid Cryogenic Optical Filter	Dadson, Carl F.	5/3/1999	8/11/2000		09/637,383	-1	F04701-96-C-0044	Filed				