

03/27/00

FORM PTO-1619A
Patent and Trademark Office

05-01-2000

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



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OPR/FINANCE

RECORDATION FORM COVER SHEET
PATENTS ONLY

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
 - License
 - Merger
 - Security Agreement
 - Change of Name
 - 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) GTE Government Systems Corporation Execution Date 9/8/99
 Name (line 2) _____
 Name (line 1) _____ Execution Date _____
 Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) General Dynamics Government Systems Corporation
 Name (line 2) _____
 Address (line 1) 77 A Street
 Address (line 2) _____
 Address (line 3) Needham Massachusetts 02494-2892
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) _____

04/28/2000 TTBH11 00000139 100460 4850069
01 FC:501 (1000.00 CH)

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 (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practices. 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

PATENT
REEL: 010731 FRAME: 0166

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" value="4,858,069"/> <input type="text" value="4,826,304"/> <input type="text" value="4,986,655"/>
<input type="text"/>	<input type="text" value="5,116,133"/> <input type="text" value="5,140,334"/> <input type="text" value="4,601,038"/>
<input type="text"/>	<input type="text" value="4,785,307"/> <input type="text" value="4,412,301"/> <input type="text" value="4,791,377"/>

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 only if a U.S. Application Number has not been assigned.

PCT PCT PCT

PCT PCT PCT

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

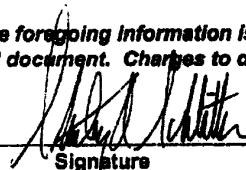
Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)

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.

Stanley A. Schlitter, Reg. 28,799  3/23/00

Name of Person Signing Signature Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Execution Date
Month Day Year

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<input type="text"/>	<input type="text"/>	<input type="text"/>

Patent Number(s)

4,932,176	4,814,783	4,907,011
4,673,948	5,057,850	4,414,667
4,727,595	4,754,287	4,763,131
5,110,217	4,986,656	5,005,022
5,065,165	5,233,609	4,652,886

**RECORDATION FORM COVER SHEET
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PATENTS ONLY**

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<input type="text"/>	<input type="text"/>	<input type="text"/>

Patent Number(s)

4,609,909	4,434,425	4,494,235
4,635,217	4,866,395	5,079,414
4,911,373	4,731,130	5,038,406
4,881,040	4,995,101	4,770,482
4,973,853	4,948,958	4,449,128

**RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY**

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Name (line 2)		
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Patent Application Number(s)			Patent Number(s)		
			4,451,832	4,405,889	4,804,891
			5,052,804	DES314,319	5,124,859

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 RESTATED CERTIFICATE OF "GTE GOVERNMENT SYSTEMS CORPORATION", CHANGING ITS NAME FROM "GTE GOVERNMENT SYSTEMS CORPORATION" TO "GENERAL DYNAMICS GOVERNMENT SYSTEMS CORPORATION", FILED IN THIS OFFICE ON THE EIGHTE DAY OF SEPTEMBER, A.D. 1999, AT 9 O'CLOCK A.M.

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



A handwritten signature in cursive script, reading "Edward J. Freel".

Edward J. Freel, Secretary of State

0947797 8100
991375043

AUTHENTICATION: 9960221
DATE: 09-08-99

PATENT
REEL: 010731 FRAME: 0161

**AMENDED AND RESTATED CERTIFICATE OF INCORPORATION
OF
GTE GOVERNMENT SYSTEMS CORPORATION**

It is hereby certified that:

1. The present name of the corporation (hereinafter called the "corporation") is GTE Government Systems Corporation. The name under which the corporation was originally incorporated was GTE Communications Products Corporation. The date of the filing of the original certificate of incorporation of the corporation was November 9, 1962.
2. The certificate of incorporation of the corporation is hereby amended in its entirety by striking out all of the existing provisions of the certificate of incorporation and substituting in lieu thereof the provisions which are set forth in the Amended and Restated Certificate of Incorporation hereinafter provided for.
3. The amendments and restatement of the certificate of incorporation of the corporation herein certified have been duly adopted by the board of directors and approved by the sole stockholder of the corporation in accordance with Section 245 and Section 242 of the General Corporation Law of the State of Delaware.
4. The effective time of the amended and restated certificate of incorporation and of the amendments herein certified shall be as of the time of filing of this amended and restated certificate of incorporation.
5. The certificate of incorporation of the corporation, as amended and restated herein, shall at the effective time of this amended and restated certificate of incorporation read as follows:

**PATENT
REEL: 010731 FRAME: 0162**

**"AMENDED AND RESTATED CERTIFICATE OF INCORPORATION
OF
GTE GOVERNMENT SYSTEMS CORPORATION**

FIRST: The name of the corporation (hereinafter called the "corporation") is General Dynamics Government Systems Corporation.

SECOND: The address, including street number, city, and county, of the registered office of the corporation in the State of Delaware is 1013 Centre Street, Wilmington, Delaware 19801, County of New Castle, and the name of the registered agent of the corporation in the State of Delaware at such address is Corporation Service Company.

THIRD: The purpose of the corporation is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of the State of Delaware.

FOURTH: The total number of shares of stock which the corporation shall have authority to issue is 1,000, at \$1.00 per share. All such shares are of one class and are shares of Common Stock.

FIFTH: The corporation is to have perpetual existence.

SIXTH: Whenever a compromise or arrangement is proposed between the corporation and its creditors or any class of them and/or between the corporation and its stockholders or any class of them, any court of equitable jurisdiction within the State of Delaware may, on the application in a summary way of the corporation or of any creditor or stockholder thereof or on the application of any receiver or receivers appointed for the corporation under § 291 of the General Corporation Law of the State of Delaware or on the application of trustees in dissolution or of any receiver or receivers appointed for the corporation under § 279 of the General Corporation Law of the State of Delaware order a meeting of the creditors or class of creditors, and/or of the stockholders or class of stockholders of the corporation, as the case may be, to be summoned in such manner as the said court directs. If a majority in number representing three fourths in value of the creditors or class of creditors, and/or of the stockholders or class of stockholders of the corporation, as the case may be, agree to any compromise or arrangement and to any reorganization of the corporation as consequence of such compromise or arrangement, the said compromise or arrangement and the said reorganization shall, if sanctioned by the court to which the said application has been made, be binding on all the creditors or class of creditors, and/or on all the stockholders or class of stockholders, of the corporation, as the case may be, and also on the corporation.

SEVENTH: For the management of the business and for the conduct of the affairs of the corporation, and in further definition, limitation, and regulation of the powers of the corporation and of its directors and of its stockholders or any class thereof, as the case may be, it is further provided:

1. The management of the business and the conduct of the affairs of the corporation shall be vested in its board of directors. The number of directors which shall constitute the whole board of directors shall be fixed by, or in the manner provided in, the Bylaws, but such number may from time to time be increased or decreased in such manner as may be provided by the Bylaws. No election of directors need be by written ballot.

2. After the original or other Bylaws of the corporation have been adopted, amended, or repealed, as the case may be, in accordance with the provisions of § 109 of the General Corporation Law of the State of Delaware, and, after the corporation has received any payment for any of its stock, the power to adopt, amend, or repeal the Bylaws of the corporation may be exercised by the board of directors of the corporation; provided, however, that any provision for the classification of directors of the corporation for staggered terms pursuant to the provisions of subsection (d) of § 141 of the General Corporation Law of the State of Delaware shall be set forth in an initial Bylaw or in a Bylaw adopted by the stockholders of the corporation entitled to vote unless provisions for such classification shall be set forth in this certificate of incorporation.

EIGHTH: To the fullest extent permitted under the law of the State of Delaware, including the General Corporation Law, a director of the corporation shall not be personally liable to the corporation or its stockholders for damages for any breach of fiduciary duty as a director. No amendment to or repeal of this Article EIGHTH shall apply to or have any effect on the liability or alleged liability of any director of the corporation for or with respect to any acts or omissions of such director occurring prior to such amendment or repeal. In the event that the General Corporation Law of the State of Delaware is hereafter amended to permit further elimination or limitation of the personal liability of directors, then the liability of a director of the corporation shall be so eliminated or limited to the fullest extent permitted by the General Corporation Law of the State of Delaware as so amended without further action by either the board of directors or the stockholders of the corporation.

NINTH: The board of directors of the corporation may, by resolution adopted from time to time, indemnify such persons as permitted by the General Corporation Law of the State of Delaware as amended from time to time. The board of directors of the corporation may, by resolution adopted from time to time, purchase and maintain insurance on behalf of such persons as permitted by the General Corporation Law of the State of Delaware as amended from time to time.

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TENTH: From time to time any of the provisions of this certificate of incorporation may be amended, altered, or repealed, and other provisions authorized by the laws of the State of Delaware at the time in force may be added or inserted in the manner and at the time prescribed by said laws, and all rights at any time conferred upon the stockholders of the corporation by this certificate of incorporation are granted subject to the provisions of this Article TENTH."

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IN WITNESS WHEREOF, the corporation has caused this certificate to be signed
by its Vice President and attested by its Secretary on this 2 day of September 1999.



David A. Savner
Vice President

ATTEST: Margaret N. House
Margaret N. House
Secretary

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RECORDED: 03/27/2000

PATENT
REEL: 010731 FRAME: 0166