

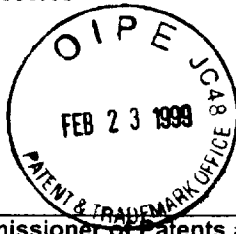
MAN 2-23-99

S.P. 08/879,027, GR. 2772

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

03-15-1999

U.S. Department of Commerce
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Name ATTN: PATENT COUNSEL, GC

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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" value="08/879,277"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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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 PCT PCT

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has not been assigned.

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.

Name of Person Signing Signature Date

PART B
CONTRACTOR ASSIGNMENT

NOW, THEREFORE, in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, the Contractor does hereby assign, sell and transfer to the United States Government, as represented by the Director, National Security Agency and his successors in office, the entire right, title and interest, throughout the world in and to said invention(s) and patent application and in and to any and all Letters Patent granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Government of the United States, to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by the Contractor had this assignment not been made, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

Signed for Contractor on July 21, 1997 (Date)
at (Locality) (County) (State)
1801 N. Beauregard Street, Alexandria Virginia

Ruth L. Greenstein
OFFICER (Signature)
Ruth L. Greenstein
Typed Name

I certify that I am the Assistant Secretary of the above-identified Corporation; that the officer who signed this instrument on behalf of the Corporation was then Vice President-Admin. & Finance of the Corporation, acting by authority of its governing body and within the scope of its corporate powers.

Signed on July 21, 1997 (Date)

Joan P. Santora
ASST. SECRETARY (Signature)
Joan P. Santora
Typed Name

(Corporate Seal)

State of Virginia }
City of Alexandria } SS:

On July 21, 1997 before me appeared Ruth L. Greenstein
and Joan P. Santora to me well known, and known to be the
Vice President - Admin (Title) and Finance and Assistant Secretary (Title)
of Institute for Defense Analyses, a corporation of Virginia Delaware (State)
and affixed their names to the foregoing instrument in my presence, and acknowledged the same to be
their and said Corporation's free act and deed.

Barbara Fealy Varagholine
Notary Public

My commission expires August 31, 1998.

(Seal)