

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

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
PATENT

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

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- ☒ New
- ☐ Resubmission (Non-Recordation)
Document ID#
- ☐ Correction of PTO Error
Reel # Frame#
- ☐ Corrective Document
Reel # Frame#

CONVEYANCE TYPE

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ 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 (line1)

Name (line 2)

Second Party
Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Execution Date
Month Day Year

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☐ Mark if additional names of receiving party attached

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☐ if a 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)

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MAIL documents to be recorded with required cover sheet(s) information to:
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PATENT
REEL: 012022 FRAME: 0720

FORM PTO-1619B

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

PATENT

Correspondent Name and Address

Area Code and Telephone Number

603.886.6100

Name

Scott J. Asmus

D-4439

Address (line 1)

Maine & Asmus

Address (line 2)

PO Box 3445

Address (line 3)

Nashua NH 03061-3445

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document
Including any attachments.

3

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)

09/947044

Patent Number(s)

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

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40

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 :

500323

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.

Scott J. Asmus

Name of Person Signing

Signature

10/2/01
Date

FORM PTO-1619C

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RECORDATION FORM COVER SHEET

Continuation

PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Execution Date
Month Day YearExecution Date
Month Day YearExecution Date
Month Day Year

Receiving Party

☐ Mark if additional names of receiving party attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City State/Country Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City State/Country Zip Code

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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)

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PATENT
REEL: 012022 FRAME: 0722

ASSIGNMENT

EFFICIENT SEQUENTIAL CIRCUITS USING CRITICAL RACE CONTROL

invented by me along with Neal R. Butler and Rosanne Tinkler, and the application for United States Patent therefor, identified by Docket No. D-4439 of the Company, and executed on even date herewith, as well as its priority Provisional Patent Application 60/277,687 filed March 21, 1991 and all divisions and continuations thereof, and all Patents which may be granted therefor and all reissues and extensions thereof together with all my rights in and to the said invention and any Patents that may hereafter be obtained therefor in any and all foreign countries including the right of priority under the International Convention based on the said application and the right of said Company to apply in its own name for Letters Patent therefor in any and all foreign countries, where legally permissible, and authorize and request the Commissioner of Patents and Trademarks to issue all United States Patents on said invention or resulting therefrom to said Company as assignee of the entire interest, and covenant that I have full right so to do, and agree that I will communicate to said Company or its representatives any facts known to me respecting said invention and testify in any legal proceeding, execute all divisional, continuing and reissue applications and all assignments of said invention, make all rightful oaths, sign all lawful papers, if and when required to do so, and generally do everything reasonably possible to aid said Company, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

Signed at Merrimack, NH, this 6 day of September, 2001

Menahem Lowy
Menahem Lowy

13 Mountain View Drive, Merrimack, NH 03054
Residence

State of New Hampshire)
) ss
County of Hillsborough)

On this 16 day of September, 2001, before me appeared **Menahem Lowy** to me known and known to me or providing satisfactory identifying materials to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

My commission expires:

[Signature]
Notary Public/Judge of the Peace

CONSTANCE I GINIEWICZ, Notary Public
My Commission Expires January 28, 2003

ASSIGNMENT

PATENT
REEL: 012022 FRAME: 0724

D-4439

ASSIGNMENT

For value received, I, **Rosanne Tinkler**, residing at the address set forth below next to my name, a citizen of the United States of America, do hereby sell and assign for myself and my heirs, successors, and assigns, to **BAE SYSTEMS Information and Electronic Systems Integration Inc.** (hereinafter referred to as the Company), a Delaware corporation, having a place of business at 65 Spit Brook Road, Nashua, New Hampshire 03061, its successors, assigns, and nominees, my entire right, title and interest, in the United States and its territorial possessions and in any and all foreign countries, in and to the invention relating to improvements in

EFFICIENT SEQUENTIAL CIRCUITS USING CRITICAL RACE CONTROL

invented by me along with Menahem Lowy and Neal R. Butler, and the application for United States Patent therefor, identified by Docket No. D-4439 of the Company, and executed on even date herewith, as well as its priority Provisional Patent Application 60/277,687 filed March 21, 1001 and all divisions and continuations thereof, and all Patents which may be granted therefor and all reissues and extensions thereof together with all my rights in and to the said invention and any Patents that may hereafter be obtained therefor in any and all foreign countries including the right of priority under the International Convention based on the said application and the right of said Company to apply in its own name for Letters Patent therefor in any and all foreign countries, where legally permissible, and authorize and request the Commissioner of Patents and Trademarks to issue all United States Patents on said invention or resulting therefrom to said Company as assignee of the entire interest, and covenant that I have full right so to do, and agree that I will communicate to said Company or its representatives any facts known to me respecting said invention and testify in any legal proceeding, execute all divisional, continuing and reissue applications and all assignments of said invention, make all rightful oaths, sign all lawful papers, if and when required to do so, and generally do everything reasonably possible to aid said Company, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

Signed at Burlington, MA, ~~MA~~ this 9/26, 2001

Rosanne Tinkler
Rosanne Tinkler

22 Donald Street, Lexington, MA 02420
Residence

State of Massachusetts
County of Middlesex) ss

On this 26th day of Sept, 2001, before me appeared **Rosanne Tinkler** to me known and known to me or providing satisfactory identifying materials to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

My commission expires:

Oct 4, 2004

T. T. Chou
Notary Public/Justice of the Peace