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Correspondent	Name and Address Area Code and Telephone	Number 603.886.6100			
Name	Scott J. Asmus D4556-US				
Address (line 1)	Maine & Asmus				
Address (line 2)	PO Box 3445				
Address (line 3)	Nashua NH 03061-3445				
Address (line 4)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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Number of Properties Enter the total number of properties involved # 1					
Fee Amount	Fee Amount for Properties Listed (37 CF	R 3.41): \$ 40			
Method of Pa Deposit Acco					
	It by deposit account or if additional fees can be charged to the Deposit Account Number: Authorization to charge addit	# 190130			
Statement and S	gnature				
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. As		2m JAN 11, 2002			
Name of Pe	rson Signing Signature	Date /			

SENT BY: MAINE & ASMUS; JAN-09 02 15:51 FROM:BAE SYSTEMS LEGAL SENT BY: MAINE & ASMUS:

603 886 4796; 603-885-2167 603 886 4796; JAN-11-02 2:02PM; TO:603 886 4796

PAGE: 01

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JAN-8-02 2:12PM:

PAGE 2/3



ASSIGNMENT

For value received, I. David W. Gemes 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 hairs, 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, Nashus, New Hampshire 03061, its successors, assigns, and nominess, 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

INTEGRATED CIRCUIT PROTONIC SIGNAL MATTRX

invented by me along with John S. Ahearn and Mani Sundaram, and the application for United States Patent therefor, identified by Doctor No. D-4556 of the Company, and executed on even date herewith, as well so its princity Previsional Patent Application SN: 60/255,336, filed December 13, 2000, entitled integrated Circuit Photonic Cross Bur Switch, and all divisions and continuations thereof, and all Patents which may be granted therefor and all releases and extensions thereof together with all my rights in and to the said invention and any Patents that may be entire be obtained therefor in any and all foreign countries including the right of pricrity under the International Convention based on the said application and the right of said Company to apply in its own name for Letters Pasant therefor in any and all foreign countries, where legally permissible, and authorize and request the Commissioner of Patenta 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 my facts known to me respecting said invention and testify in any legal proceeding, execute all divisional, continuing and relasue applications and all assignments of said investion, make all rightful caths, 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 commune, to obtain and enforce proper patent protection for said invention in all countries.

Signed at Nashun, NH. this 13th day of December, 2001

State of New Hampshire)

County of Hillsborough)

On this 13th day of December, 2901, before me appeared David W. Gemes to me known and known to me 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:

OCCITY J. ABMUS Justice of the Peace - New Hampshire Commission Expires December 3, 8006 Severy Public Au STrue OF The Mace

37 Sloven Rood, Jamaica Plain, MA 02130

PATENT

REEL: 012298 FRAME: 0166

SENT BY: MAINE & ASMUS; JAN-09 02 15:51 FROM:BAE SYSTEMS LEGAL SENT BY: MAINE & ABMUS:

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Page 2

603 888 4798;

JAN-8-02 2:13PM;

PAGE 3/3

Signed at -974, this 97 day of James, 2001

John S. store Arearn Ma.

101 Buston Post Road, Authorse, NH 03031

Residence

Course of the laborate) as

On this 9th day of Jasonev, 2001, before me appeared John S. Abern to me known and known to me 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:

Notary Public

BANDRA M. CARIGNAN, Notary Public My Commission Expires May 28, 2002

Signed at DH , this deduy of 12001

Mani Sundaram

17 Polisnio Drive, Nashua, NH 03062

same called the

State of

County of

On this $2a^{18}$ day of De = 2001, before me appeared Mani Sundaram to me known and known to me 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:

ACOTT J. Adam in Managhire Alexandrical Street Peace - New Hempshire My Ballydreen Elektra December 3, 2002

RECORDED: 01/11/2002

Notary Public

Justice of the Pen

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