

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>William B. Garner</td> <td>03/10/1997</td> </tr> <tr> <td>William R. Tisdale</td> <td>03/12/1997</td> </tr> <tr> <td>Michael E. Threadgill</td> <td>03/04/1997</td> </tr> <tr> <td>Edward J. Modzelesky</td> <td>03/03/1997</td> </tr> <tr> <td>Gary G. Churan</td> <td>03/12/1997</td> </tr> <tr> <td>Charles H. Biegel</td> <td>03/12/1997</td> </tr> <tr> <td>Charles Kittiver</td> <td>03/12/1997</td> </tr> </tbody> </table>		Name	Execution Date	William B. Garner	03/10/1997	William R. Tisdale	03/12/1997	Michael E. Threadgill	03/04/1997	Edward J. Modzelesky	03/03/1997	Gary G. Churan	03/12/1997	Charles H. Biegel	03/12/1997	Charles Kittiver	03/12/1997
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RECEIVING PARTY DATA																	
Name:	AMSC Subsidiary Corporation																
Street Address:	10802 Parkridge Boulevard																
City:	Reston																
State/Country:	VIRGINIA																
Postal Code:	20191																
PROPERTY NUMBERS Total: 1																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>09611713</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	09611713												
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CORRESPONDENCE DATA																	
Fax Number:	(919)854-1401																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	919-854-1400																
Email:	sfreedman@myersbigel.com																
Correspondent Name:	Susan E. Freedman/MBSS																
Address Line 1:	4140 Parklake Avenue																
Address Line 2:	Suite 600																
Address Line 4:	Raleigh, NORTH CAROLINA 27612																
ATTORNEY DOCKET NUMBER:	9301-59IPDV2																

CH \$40.00 09611713

PATENT

500106435

REEL: 017646 FRAME: 0446

NAME OF SUBMITTER:

Susan E. Freedman

Total Attachments: 5

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Docket No.: 1506-027

ASSIGNMENT

WHEREAS WE, William B. Garner, William R. Tisdale, Michael E. Threadgill, Edward J. Modzelesky, Gary G. Churan, Charles H. Biegel, Charles Kittiver, of Laytonsville, Md., Purcellville, Va., Annapolis, Md., Leesburg, Va., Annandale, Va., Herndon, Va., and Vienna, Va., respectively, have made a certain new and useful invention as set forth in a Patent Cooperation Treaty (PCT) International Application, entitled VIRTUAL NETWORK CONFIGURATION AND MANAGEMENT SYSTEM FOR SATELLITE COMMUNICATIONS SYSTEM, for which a PCT International application was filed on November 29, 1996, and identified by PCT International Serial No. PCT/US96/19120 AND for which the U.S. Application is executed concurrently herewith;

AND WHEREAS, AMSC Subsidiary Corporation, a corporation of the State of Delaware and having an address of 10802 Parkridge Boulevard, Reston, Virginia 22091 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patents of the United States, said PCT International Application and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto AMSC Subsidiary Corporation, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned PCT International application, including said PCT International application, any original, continuation, continuation-in-part, divisional, reissue, re-examination applications or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuation, continuation-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said AMSC Subsidiary Corporation, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

March 19, 1997
Date

William B. Garner
William B. Garner

Date

William R. Tisdale
William R. Tisdale

March 4, 1997
Date

Michael E. Threadgill
Michael E. Threadgill

March 3, 1997
Date

Edward J. Modzelesky
Edward J. Modzelesky

Date

Gary G. Churan
Gary G. Churan

March 12, 1997
Date

Charles H. Biegel
Charles H. Biegel

March 12, 1997
Date

Charles Kittiver
Charles Kittiver

STATE OF Washington)
COUNTY OF DC) SS:

On this 12 day of March, 1997, before me personally appeared Charles Kittiver, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

SEAL

Shelley Berger

Notary Public

My commission expires

SHELLEY BERGER

NOTARY PUBLIC DISTRICT OF COLUMBIA

My Commission Expires September 14, 2001

Docket No.: 1506-027

ASSIGNMENT

WHEREAS WE, William B. Garner, William R. Tisdale, Michael E. Threadgill, Edward J. Modzelesky, Gary G. Churan, Charles H. Biegel, Charles Kittiver, of Laytonsville, Md., Purcellville, Va., Annapolis, Md., Leesburg, Va., Annandale, Va., Herndon, Va., and Vienna, Va., respectively, have made a certain new and useful invention as set forth in a Patent Cooperation Treaty (PCT) International Application, entitled VIRTUAL NETWORK CONFIGURATION AND MANAGEMENT SYSTEM FOR SATELLITE COMMUNICATIONS SYSTEM, for which a PCT International application was filed on November 29, 1996, and identified by PCT International Serial No. PCT/US96/19120 AND for which the U.S. Application is executed concurrently herewith;

AND WHEREAS, AMSC Subsidiary Corporation, a corporation of the State of Delaware and having an address of 10802 Parkridge Boulevard, Reston, Virginia 22091 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patents of the United States, said PCT International Application and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto AMSC Subsidiary Corporation, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned PCT International application, including said PCT International application, any original, continuation, continuation-in-part, divisional, reissue, re-examination applications or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuation, continuation-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said AMSC Subsidiary Corporation, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

March 10, 1997
Date

William B. Garner
William B. Garner

March 12, 1997
Date

William R. Tisdale
William R. Tisdale

March 4, 1997
Date

Michael E. Threadgill
Michael E. Threadgill

March 3, 1997
Date

Edward J. Modzelesky
Edward J. Modzelesky

March 12, 1997
Date

Gary G. Churan
Gary G. Churan

March 12, 1997
Date

Charles H. Biegel
Charles H. Biegel

Date

Charles Kittiver

STATE OF VIRGINIA)
) SS:
COUNTY OF FAIRFAX)

On this 10th day of March, 1997, before me personally appeared William B. Garner, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

S E A L

Josephine H. Polk Lovell
Notary Public

My commission expires Oct. 31, 1997

STATE OF VIRGINIA)
) SS:
COUNTY OF FAIRFAX)

On this 12th day of March, 1997, before me personally appeared William R. Tisdale, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

S E A L

Josephine H. Polk Lovell
Notary Public

My commission expires Oct 31, 1997

STATE OF VIRGINIA)
) SS:
COUNTY OF FAIRFAX)

On this 4th day of March, 1997, before me personally appeared Michael E. Threadgill, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

S E A L

Josephine H. Polk Lovell
Notary Public

My commission expires Oct. 31, 1997

STATE OF VIRGINIA)
) SS:
COUNTY OF FAIRFAX)

On this 3rd day of March, 1997, before me personally appeared Edward J. Modzelesky, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

SEAL

Angela N. Pollock
Notary Public
My commission expires Oct 31, 1997

STATE OF VIRGINIA)
) SS:
COUNTY OF FAIRFAX)

On this 13th day of March, 1997, before me personally appeared Gary G. Churan, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

SEAL

Angela N. Pollock
Notary Public
My commission expires Oct. 31, 1997

STATE OF VIRGINIA)
) SS:
COUNTY OF FAIRFAX)

On this 17th day of March, 1997, before me personally appeared Charles H. Biegel, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and purposes therein set forth.

SEAL

Angela N. Pollock
Notary Public
My commission expires Oct 31, 1997