

MAGN-003/01US



08-07-2002  
102181540

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PATENT

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- ☒ New  
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- ☒ Assignment  
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☐ Change of Name  
☐ Other

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Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Execution Date  
Month Day Year

Name (line 1) HAREL, Haim

Name (line 2)

07/25/02

Second Party

Name (line 1) SEGALOVITZ, Alexander

Name (line 2)

Execution Date  
Month Day Year

05/23/02

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) Magnolia Broadband

Name (line 2)

Address (line 1) 64 Old Highway 22

Address (line 2) Suite 301

Address (line 3) Clinton

NJ

08809

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.  
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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)

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08/06/2002 LNUELLER 00000220 501283 10131612  
01 FC:581 40.00 CH

Correspondent Name and Address

Area Code and Telephone Number

(703) 456-3000

Name Cooley Godward LLP

Address (line 1) One Freedom Square

Address (line 2) Reston Town Center

Address (line 3) 11951 Freedom Drive

Address (line 4) Reston, Virginia 20190-5656

Pages

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

# 6

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)

10/131,612

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):

\$

40.00

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:

#

50-1283

Authorization to charge additional fees:

Yes ☐

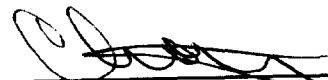
No ☐

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.

Christopher R. Hutter

Name of Person Signing



Signature

July 31, 2002

Date

Attorney Docket No: MAGN003/01US

PATENT

**ASSIGNMENT  
(Joint)**

Haim HAREL, and Alexander SEGALOVITZ, residing at 36 White Street, Apt. #4, New York, New York 10013; and 14 Haemek Street, Kefar Sava 44470, Isreal, respectively (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **SMART ANTENNA BASED SPECTRUM MULTIPLEXING USING EXISTING PILOT SIGNALS FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) MODULATIONS**, and which is a:

- (1) ☐ provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☐ bearing Application No. , and filed on April 25, 2002.

**WHEREAS**, Magnolia Broadband, a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 64 Old Highway 22, Suite 301, Clinton, NJ 08809 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); and any patent(s) of the United States or other countries that may be granted therefor or thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: July 25, 2002

By: \_\_\_\_\_

Haim Harel

State of New Jersey )

ss.

County of Hunterdon )

On July 25, 2002, before me, Haim Harel, personally appeared \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Karin Greco  
Signature of Notary Public

**KARIN GRECO**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires August 21, 2005  
Place Notary Seal Above

Rev. 10/08/2001

Attorney Docket No: MAGN003/01US

**ASSIGNMENT  
(Joint)**

**PATENT**

Haim HAREL, and Alexander SEGALOVITZ, residing at 36 White Street, Apt. #4, New York, New York 10013; and 14 Haemek Street, Kefar Sava 44470, Isreal, respectively (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled **SMART ANTENNA BASED SPECTRUM MULTIPLEXING USING EXISTING PILOT SIGNALS FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) MODULATIONS**, and which is a:

- (1) ☐ provisional application
- (a) ☐ to be filed herewith; or
- (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
- (a) ☐ to be filed herewith; or
- (b) ☐ bearing Application No. , and filed on April 25, 2002.

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**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

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Page 3

Date: 23 MAY 2002

By: \_\_\_\_\_

Alexander SEGALOV 

State of \_\_\_\_\_)

ss.

County of \_\_\_\_\_)

On \_\_\_\_\_, before me, \_\_\_\_\_, personally appeared \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary Public

Place Notary Seal Above

RECORDED: 07/31/2002

05/22/2002 WED 23:51 PATENT NO 88281 012

REEL: 013149 FRAME: 0987

12/12