

10-23-2002

PATENT

OFFICE OF PUBLIC RECORDS

RE



HEET

2002 OCT 17 AM 7:51

102257705

TO: Commissioner of Patents and Trademarks: Please record the attached original document and convey(ies) **FINANCE SECTION****Submission Type**

- ☒ **New** *1047102*
- ☐ **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  Anthony J. LochtefeldExecution Date  
Month Day Year

09/12/2002

Name  Thomas A. Langdo

09/12/2002

Name  Richard Westhoff

10/04/2002

Name 

/ /

Name 

/ /

**Receiving Party**

- ☐ **Mark if additional names of receiving parties attached**

Name (line 1)  AmberWave Systems CorporationName (line 2) Address (line 1)  13 Garabedian DriveAddress (line 2) Address (line 3)  Salem

City

 NH

State/Country

 03079-4235

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. (Designation must be a separate document from Assignment)

**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) **FOR OFFICE USE ONLY**

10/23/2002 GTOW11 00000039 10164988

01 FC:8021

40.00 DP

Mail documents to be recorded with required cover sheet(s) information to:  
Box Assignment, Director of the United States Patent and Trademark Office, Washington, D.C. 20231

**PATENT**  
**REEL: 013399 FRAME: 0463**

## Correspondent Name and Address

Area Code and Telephone Number (617) 248-7000

Name Patent Administrator

Address (line 1) Testa, Hurwitz &amp; Thibault, LLP

Address (line 2) High Street Tower

Address (line 3) 125 High Street

Address (line 4) Boston, MA 02110

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)

10/164,988

## Patent Number(s)

## 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

#

20-0531

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.

Natasha C. Us

Name of Person Signing



Signature

Oct. 11, 2002

Date

**ASSIGNMENT**

WHEREAS, We, Anthony J. Lochtefeld, Thomas A. Langdo and Richard Westhoff have invented one or more inventions described in an application for Letters Patent of the United States entitled:

**ELEVATED SOURCE AND DRAIN ELEMENTS FOR  
STRAINED-CHANNEL HETEROJUNCTION FIELD-EFFECT TRANSISTORS**

and

Serial No. 10/164,988 filed in the United States Patent Office on June 7, 2002; and

WHEREAS, AmberWave Systems Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the state of Delaware, and having a usual place of business at 13 Garabedian Drive, Salem, NH 03079-4235 desires to acquire an interest therein, in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

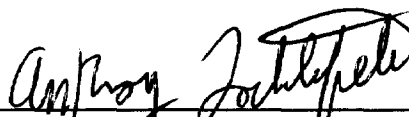
AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

**IN TESTIMONY WHEREOF**, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor:

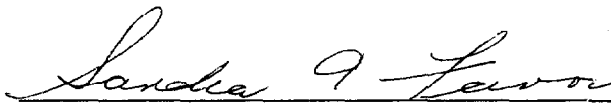
  
Anthony J. Lochtefeld

*Massachusetts*

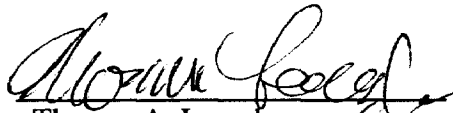
State of ~~New Hampshire~~ )  
County of *Essex* ) ss

Subscribed and sworn to before me, by the above-named Anthony J. Lochtefeld this 12<sup>th</sup> day of

September, 2002.

  
Notary Public  
My Commission Expires: 10-4-07

Inventor:

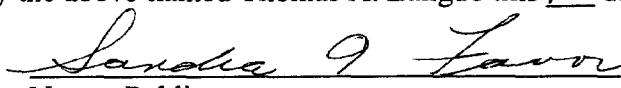
  
Thomas A. Langdo

*Massachusetts*

State of ~~New Hampshire~~ )  
County of *Essex* ) ss

Subscribed and sworn to before me, by the above-named Thomas A. Langdo this 12<sup>th</sup> day of

September, 2002.

  
Notary Public  
My Commission Expires: 10-4-07

Inventor:

Richard Westhoff  
Richard Westhoff

~~State of New Hampshire~~ )  
County of Essex ) ss

Subscribed and sworn to before me, by the above-named Richard Westhoff this 4<sup>th</sup> day of October, 2002.

Sandra G. Farrow  
Notary Public  
My Commission Expires: 10-04-07

2438835-1