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11-24-2000



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s or copy thereof.

To the Honorable Commissioner of Patents and Trademark

1. Name of conveying party(ies):

Israel LIFSHITZ; Liron FRENKEL; and Moran AMIDAN

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: October 24, 2000

2. Name and address of receiving party(ies):

Name: **TIOGA TECHNOLOGIES LTD.**

Internal Address:

Street Address: **150A Charcot Avenue**

City: **San Jose** State: **California** Zip: **95131**

Additional name(s) & address(es) attached? Yes No

10/27/00
10922 U.S. PTO
09/699214

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 10/24/00

A. Patent Application No.(s)

B. Patent No. (s)

EXPRESS MAIL CERTIFICATE

Date 10/27/00 Label No. 62822364 OUS

I hereby certify that, on the date indicated above I deposited this paper or fee with the U.S. Postal Service & that it was addressed for delivery to the Commissioner of Patents & Trademarks, Washington D.C. 20231 by "Express Mail Post Office to Addressee" terms.

D B Beck
Name (Print) Signature

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Darby & Darby P.C.

Internal Address: S. Peter Ludwig, Esq.

Street Address: 805 Third Avenue, 27th Floor

City: New York State: New York Zip: 10022-7513

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$40.00

Enclosed with filing fee.

Authorized to be charged to deposit account

8. Deposit account number:

04-0100

(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

S. Peter Ludwig, Reg. #25,351
Name of Person Signing

S. Peter Ludwig
Signature

October 27, 2000
Date

Total number of pages including cover sheet, attachments, and document:

3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
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11/01/2000 BHABTEN 00000031 09699214

04 FC:581

40.00 DP

ASSIGNMENT

WHEREAS, the below named inventors, ASSIGNORS, have made a certain new and useful invention in:

EFFICIENT FRAMING FOR ADSL TRANSCEIVERS

for which a patent application specification is attached hereto and which is being executed concurrently herewith,

and WHEREAS, **TIOGA TECHNOLOGIES LTD.** a U.S. company having a place of business at **150A Charcot Avenue, San Jose, California 95131, U.S.A.**, ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

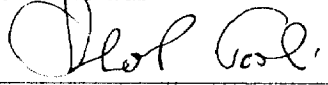
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all the divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the said United States application under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any other International agreement or the domestic laws of the country in which any such application is filed, as may be applicable, and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

ASSIGNORS authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to the issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNORS covenant and agree that they have full right to convey the entire interest herein assigned, and have not executed, and will not execute, any agreement in conflict herewith.

AND ASSIGNORS further covenant and agree that they will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

Full Name of first inventor: Israel Lifshitz

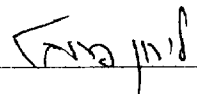
Inventor's signature  Date 24.10.2000

Residence: Jerusalem, Israel

Citizenship: Israel

Post Office address: 3 Mivtza Kadash Street, Jerusalem 93645, Israel

Full name of second joint inventor: Liron Frenkel

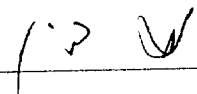
Inventor's signature  Date 24.10.2000

Residence: Netanya, Israel

Citizenship: Israel

Post Office address: 64c Savidor Street, Netanya 42655, Israel

Full name of third joint inventor: Moran Amidan

Inventor's signature  Date 24.10.2000

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