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Form PTO 1595

Altera Docket No. 552.111US01

U.S. Department of Commerce

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

## 1. Name of conveying party(ies)

Jin-Yi Pan

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

Nokia Networks Oy  
Keilalahdentie 4  
FIN-02150 Espoo  
FINLANDAdditional names(s) of conveying party(ies) ☐ Yes ☒ NoAdditional name(s) & addresses attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: 11/19/99

## 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:

A. Patent Application Number(s)  
09/390,910

Patent Number(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Steven R. Funk  
Address: Altera Law Group  
10749 Bren Road East, Opus 2  
Minneapolis, Minnesota 55343-9056

## 6. Total number of applications and patents involved: 1

## 7. Total fee (37 C.F.R. §3.41) 40.00

- ☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account  
☐ Authorized to charged to deposit account

## 8. Deposit Account number: 50-1038

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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.

Steven R. Funk  
Name of Person Signing

Signature

November 24, 1999  
Date

12/13/1999 TTON11 00000145 09390910

Total number of pages including cover sheet, attachments, and document: 2

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CERTIFICATE UNDER 37 C.F.R. 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described herein, are being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C.  
 20231 on November 24, 1999

Steven R. Funk  
Name

Signature

**PATENT**  
**REEL: 010429 FRAME: 0382**

**PATENT ASSIGNMENT TO CORPORATION WORLDWIDE**

WHEREAS,

1. Jin-Yi Pan residing at 17 Loon Way, Westford, Massachusetts 01886 and a citizen of China;
2.           residing at           and a citizen of           ;
3.           residing at           and a citizen of           ;

hereafter referred to as "THE UNDERSIGNED", have made an invention entitled SYSTEM AND METHOD FOR FULLY UTILIZING AVAILABLE OPTICAL TRANSMISSION SPECTRUM IN OPTICAL NETWORKS, filed September 7, 1999 having serial number 09/390,910.

AND, WHEREAS, NOKIA NETWORKS OY, hereafter referred to as ASSIGNEE, a corporation organized under the laws of Finland and whose place of business and business address is Keilalahdentie 4, FIN-02150 Espoo, Finland, is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFOR, in consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration, THE UNDERSIGNED hereby sell, assign and transfer unto ASSIGNEE the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to all divisionals, continuations, continuations in part, reissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hereby authorize the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED, hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said Assignee its successors and assignees, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Jin-Yi Pan

Date

Date

Date

No Legalization Required