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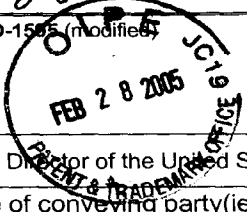
FORM PTO-1505 (modified)  
(Rev 6-93)

REC 03-07-2005

U.S. DEPARTMENT OF COMMERCE  
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SHEET

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To the Director of the United States Patent and Trademark Office attached original documents or copies thereof.

1. Name of conveying party(ies):  
**Antti Takaluoma  
Petri Kangas**

2. Name and address of receiving party(ies):  
**Nokia Corporation  
Keilalahdentie 4  
Espoo  
FIN-02150  
Finland**

Additional conveying party(ies) **NO**

3. Nature of conveyance:  
**ASSIGNMENT**

Execution Date: **01/10/05**

Additional name(s) & address(es) attached? **NO**

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

If this is being filed together with a new application, the execution date of the application is:

A. Patent Application Number(s): **11/023,315**

B. Patent Number(s):

Additional numbers attached? **NO**

5. Name and address of party to whom correspondence concerning document should be mailed:  
**G. Peter Albert, Jr.  
FOLEY & LARDNER LLP  
321 North Clark Street  
Suite 2800  
Chicago, Illinois 60610-4764**

6. Total number of applications/patents involved: **1**

7. Total fee (37 C.F.R. § 3.41): **\$40.00**

Check Enclosed

Charge to deposit account

8. Deposit account number: **06-1450**

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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. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.*

**G. Peter Albert, Jr.**

**FEBRUARY 25, 2005**

Name of person signing: **G. Peter Albert, Jr.**

Signature:

Date: **FEBRUARY 25, 2005**

Total number of pages including cover sheet, attachments, and document: **3**

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**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

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(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

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as set forth in this United States Patent Application

Check  
one

executed concurrently herewith  
 executed on \_\_\_\_\_  
 Serial No. 11/023,315 Filed December 27, 2004  
and

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

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ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

**NAME AND SIGNATURE OF INVENTOR**

NAME: ANTTI TAKALUOMA

SIGNATURE: [Signature]

DATE: 10.1.2005

**NAME AND SIGNATURE OF WITNESSES**

NAME: Juha Iivari

SIGNATURE: [Signature]

DATE: 10.1.2005

NAME: [Signature]

SIGNATURE: SARARI KAIKKONEN

DATE: 10.1.2005

**NAME AND SIGNATURE OF INVENTOR**

NAME: PETRI KANGAS

SIGNATURE: [Signature]

DATE: 10.1.2005

**NAME AND SIGNATURE OF WITNESSES**

NAME: Juha Iivari

SIGNATURE: [Signature]

DATE: 10.1.2005

NAME: SARARI KAIKKONEN

SIGNATURE: [Signature]

DATE: 10.1.2005

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.