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Docket No.: 872.0115.U1(US)

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
P08A/REV03



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings

102041568

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

1. Name of conveying party(ies):
Jaakko Huovinen

3/21/02

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

Name: **Nokia Corporation**

Address: **Keilalahdentie 4**

JCS96 U.S. PTO
10/104963
03/21/02

Additional names(s) of conveying party(ies) Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

City: **Espoo** State/Prov.:

Country: **Finland** ZIP: **02150**

Execution Date: **March 21, 2002**

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

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

If this document is being filed together with a new application, the execution date of the application is: **March 21, 2002**

Patent Application No. Filing date

B. Patent No.(s)

01/28/2002 MBIZUNES 00000030 10104963

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10/104963

Additional numbers

Yes No

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

Name: **Harry F. Smith**

Registration No. **32,493**

Address: **Harrington & Smith, LLP**

1809 Black Rock Turnpike

City: **Fairfield** State/Prov.: **CT**

Country: ZIP: **06432**

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

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

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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.

Harry F. Smith

Harry F. Smith

March 21, 2002

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Signature

3

Date

Total number of pages including cover sheet, attachments, and

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PATENT
REEL: 012731 FRAME: 0644

For U.S. and/or Foreign Rights
 For U.S. Application or U.S. Patent
 For PCT Application
 By Single or Multiple Inventors

ASSIGNMENT OF INVENTION

Docket No. **NC35351**

in accordance with an agreement between ASSIGNEE and ASSIGNOR, if one name be listed below, or ASSIGNORS, if more than one name be listed below, and for good and valuable consideration,

(1) ASSIGNOR (inventor):

FULL NAME OF INVENTOR	LAST NAME Huovinen	FIRST NAME Jaakko	MIDDLE INITIAL
RESIDENCE & CITIZENSHIP	STATE OR COUNTRY Oulu, Finland	CITIZENSHIP Finland	
POST OFFICE ADDRESS	P.O. ADDRESS Koulukatu 32 D 37	CITY & COUNTRY 90100 Oulu, Finland	

hereby sell(s), assign(s) and transfer(s) to

ASSIGNEE:

Nokia Corporation
Keilalahdentie 4, 02150 Espoo, Finland

and the successors, assigns and legal representatives of the ASSIGNEE

the entire right, title and interest

for the United States and its territorial possessions

and in all foreign countries, including all rights to claim priority

in and to any and all improvements which are disclosed in the invention entitled:

**FAST DIGITAL IMAGE DITHERING METHOD THAT MAINTAINS A
 SUBSTANTIALLY CONSTANT VALUE OF LUMINANCE**

that is found in

U.S. patent application executed on even date herewith

and any legal equivalent thereof in a foreign country,
including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention, the above application, or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof.

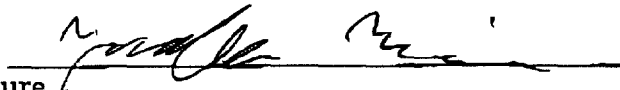
ASSIGNOR(S) hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR(S) further covenant(s) that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

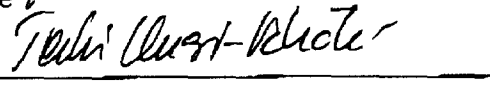
IN WITNESS WHEREOF, I (We) have hereunto set hand and seal this

21.3.2002 (Date of Signing).

(1) **Jaakko Huovinen**
Assignor Name

Signature 

Witnessed by

Signature 

Date 21.3.2002