

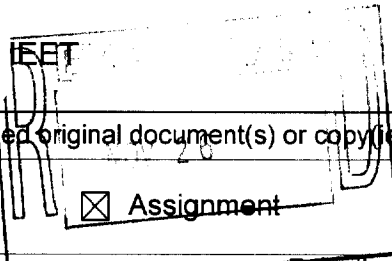
12-13-1999



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To: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies)

Submission Type:

New

Conveyance Type:

Assignment

Conveying Party(ies)

Mark if additional names of conveying parties are attached

Execution Date
(Month Day Year)

Name Jelena Kovacevic

10/25/99

Name Martin Vetterli

11/12/99

Name Laurent Lorenzo Balmelli-Quadranti

10/20/99

Name

Receiving Party

Mark if additional names of receiving parties are attached

Name

Lucent Technologies, Inc.

Address

P.O. Box 636, Murray Hill, NJ 07974-0636

Domestic Representative

Correspondent Name and Address

Name Henry T. Brendzel
Address P.O. Box 574

Telephone Number (973) 467-2025

Springfield, NJ 07081

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 are attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property)

Patent Application Number(s)

Patent Number(s)

09/425,149

If this document is being filed together with a new Patent Application, enter the date on which the patent application was signed by the first named executing inventor.

(Month Day Year)

Patent Cooperation Treaty (PCT)

Mark if additional numbers are attached

Enter PCT application number only if a US Application Number has NOT been assigned

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

Method of payment

Via enclosed Fees Form

Enclosed

Deposit Account

Authorization to charge additional fees, if necessary

Yes No

Account Number 12-2325

Statement and Signature

To the best of 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.

Henry T. Brendzel

Name of Person Signing

Signature

Date

11/22/99

For office use only

12/10/1999 DNGUYEN 00000270 122325 09425149

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40.00 CH

PATENT REEL: 010426 FRAME: 0621

ASSIGNMENT AND AGREEMENT

For value received, we, Jelena Kovacevic of New York in the County of Manhattan and State of NY, Martin Vetterli of CH-1603 Brandvaux, Switzerland, and Laurent Lorenzo Balmelli-Quadranti of 2072 St-Blaise (NE), Switzerland, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **Efficient Processing of Quadtree Data** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. they may designate.

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Jelena Kovacevic
Jelena Kovacevic

Date 10/25/99

United States of America)
State of New Jersey)ss.:
County of Union)

On this 25 day of October, 1999, Before me personally came Jelena Kovacevic, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Diane C. Thomas
Notary Public

DIANE C. THOMAS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires July 11, 2001

Martin Vetterli

Date _____

United States of America)
State of _____)ss.:
County of _____)

On this _____ day of _____, 19____, Before me personally came Martin Vetterli, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Balmelli
Laurent Lorenzo Balmelli-Quadranti

Date 10/20/99

United States of America)
State of New Jersey)ss.:
County of Union)

On this 20th day of October, 1999, Before me personally came Laurent Lorenzo Balmelli-Quadranti, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Diane C. Thomas
Notary Public

DIANE C. THOMAS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires July 11, 2001

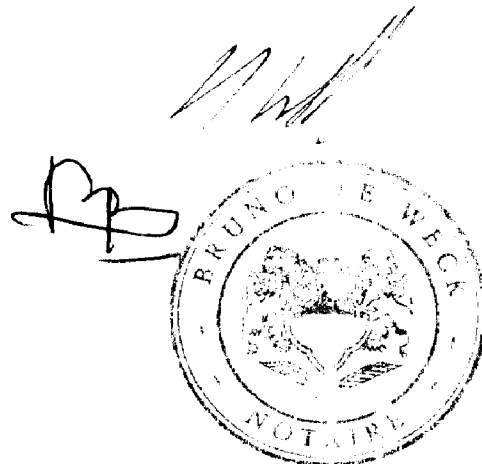
ASSIGNMENT AND AGREEMENT

For value received, we, Jelena Kovacevic of New York in the County of Manhattan and State of NY, Martin Vetterli of CH-1603 Grandvaux, Switzerland, and Laurent Lorenzo Balmelli-Quadranti of 2072 St-Blaise (NE), Switzerland, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **Efficient Processing of Quadtree Data** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

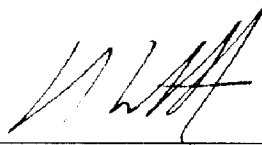
We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

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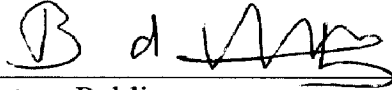


Martin Vetterli

Date Nov. 12, 1999

United States of America)
State of)ss.:
County of)

On this 12th day of November, 1999, Before me personally came Martin Vetterli, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

