

In place of Form PTO-1595

12-30-2003

Docket No. AUS920030794US1



3T

102634900

To the Commissioner for Patents: Please record the attached original documents or copy thereof.

12-17-03

1. Name of conveying party(ies): (1) CHARLES JAY ALPERT (2) RAMA GOPAL GANDHAM (3) MILOS HRKIC (4) STEPHEN THOMAS QUAY Additional name(s) of conveying party(ies) attached? Yes <input checked="" type="checkbox"/> No	Execution Date: <u>12-16-03</u> <u>12-16-03</u> <u>12-15-03</u> <u>12-16-03</u>
2. Name and address of receiving party(ies): International Business Machines Corporation New Orchard Road Armonk, New York 10504	3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____

22386 U.S. PTO
10738711



121703

4. Application number(s) or patent number(s): 10738711

If this document is being filed together with a new application, the execution date of the application is:
 (1) 12-16-03 (2) 12-16-03 (3) 12-15-03 (4) 12-16-03

A. Patent Application No.(s) _____ B. Patent No.(s) _____

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

Casimer K. Salys
IBM Corporation
Intellectual Property Law
11400 Burnet Road
Austin, TX 78758
(512) 823-0092

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:

09-0447

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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.

Casimer K. Salys
Name of Person Signing

Casimer K. Salys
Signature

12/17/03
Date

12/29/2003 DBYRNE 00000234 090447 10738711

01 FC:8021 40.00 DA

Total number of pages including cover sheet: 7

A S S I G N M E N T

Whereas, we,

(1) Charles Jay Alpert of Round Rock
County of Williamson and State of Texas

and

(2) Rama Gopal Gandham of Wappingers Falls
County of Dutchess and State of New York

and

(3) Milos Hrkic of Austin
County of Travis and State of Texas

and

(4) Stephen Thomas Quay of Austin
County of Williamson and State of Texas

have invented certain improvements in

METHOD AND APPARATUS FOR GENERATING STEINER TREES USING SIMULTANEOUS BLOCKAGE AVOIDANCE, DELAY OPTIMIZATION AND DESIGN DENSITY MANAGMENT

and executed, respectively, a United States patent application therefore on (Dates Inventors Signed Declaration) (1) 12/16/, 2003, (2) _____, 2003, (3) _____, 2003, and (4) 12/16, 2003.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) Signed at Austin on 12/16, 2003.



Charles Jay Alpert


and (2) Signed at _____ on _____, 2003.

Rama Gopal Gandham

and (3) Signed at _____ on _____, 2003.

Milos Hrkic

and (4) Signed at Austin on 12/16, 2003.



Stephen Thomas Quay

IBM DOCKET NO. AUS920030794USI

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Whereas, we,

(1) Charles Jay Alpert of Round Rock
County of Williamson and State of Texas

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(2) Rama Gopal Gandham of ~~Wappingers Falls~~ POUGHKEEPSIE
County of Dutchess and State of New York *Paul*

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(3) Milos Hrkic of Austin
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(1) Signed at _____ on _____, 2003.

Charles Jay Alpert

IBM DOCKET NO. AUS920030794US1

and (2) Signed at Hopwell Tct on 16th December, 2003.

G.S.B.N. Rama Gopal
Rama Gopal Gandham

and (3) Signed at _____ on _____, 2003.

Milos Hrkic

and (4) Signed at _____ on _____, 2003.

Stephen Thomas Quay

IBM DOCKET NO. AUS920030794US1

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County of Travis MERCER TX and State of Texas NEW JERSEY USA

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Charles Jay Alpert

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and (2) Signed at _____ on _____, 2003.

Rama Gopal Gandham

and (3) Signed at PRINCETON, NJ on 12/15, 2003.

Milos Hrkic

and (4) Signed at _____ on _____, 2003.

Stephen Thomas Quay