

5/20/02

RECORD



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To the Commissioner, United States Patent and Trademark Office

Original documents or copy thereof.

1. Name of conveying party(ies)  
 (1) Kannan Ramchandran  
 (2) Jim Chou  
 (3) Igor Kozintsev

2. Name and address of receiving party(ies)  
 Name: Merunetworks, Inc.  
 Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No

3. Nature of conveyance:  
 Assignment                     Merger  
 Security Agreement             Change of Name  
 Other \_\_\_\_\_

Street Address: 3350 Thomas Road  
 City: Santa Clara State: CA ZIP: 95054

Execution Date: (1) 5/6/02; (2) 5/7/02; (3) 4/15/02

Additional name(s) & address(es) attached? [ ] Yes [x] No

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 No.(s)  
09/351,631

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? [ ] Yes [x] No

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

Name: Mary Lou Wakimura, Esq.  
 Internal Address: \_\_\_\_\_  
Hamilton, Brook, Smith & Reynolds, P.C.  
 Street Address: 530 Virginia Road  
P.O. Box 9133  
 City: Concord State: MA ZIP: 01742-9133

6. Total number of applications and patents involved: [ 1 ]

7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00  
 Enclosed  
 Authorized to charge any deficiencies or credit any overpayment to deposit account  
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8. Deposit account number:  
08-0380

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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.*

Mary Lou Wakimura  
 Name of Person Signing

Mary Lou Wakimura  
 Signature

5/13/02  
 Date

Total number of pages including cover sheet, attachments, and document: [ 5 ]

05/22/2002 09:11:51 AM 00000010 09351631  
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Joint

ASSIGNMENT

WHEREAS, we, **Kannan Ramchandran, Jim Chou and Igor Kozintsev**, have invented a certain improvement in **DATA TRANSMISSION USING ARITHMETIC CODING BASED CONTINUOUS ERROR DETECTION** described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on **July 12, 1999** as Application No. **09/351,631**;
- was patented under U.S. Patent No. [ ] on [ ] .

WHEREAS, **Merunetworks, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of California**, and having a usual place of business at **3350 Thomas Road, Santa Clara, California 95054** desires to acquire an interest therein in accordance with agreements duly entered into with us;

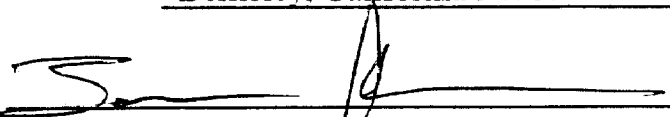
NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

Inventor  Date 5/6/02  
**Kannan Ramchandran**

Address 111 The Alameda  
Berkeley, California 94707

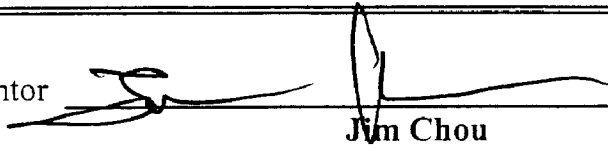
Witness 

Address 1786 Spruce, Apt 101  
Berkeley, CA 94709

Witness Mark Johnson

Address 319 Cory Hall  
Berkeley, CA

Inventor

  
Jim Chou

Date

05/07/02

Address 1786 Spruce St., Apt. 101

Berkeley, California 94709

Witness



Address

1111 The Alameda  
Berkeley, CA 94707

Witness

Mack Johnson

Address

319 Cory Hall  
Berkeley, CA

Inventor

Igor Kozintsev

Date

Address 4913 Anna Drive

San Jose, California 95124

Witness

Address

Witness

Address

Inventor Jim Chou Date \_\_\_\_\_

Address 1786 Spruce St., Apt. 101  
Berkeley, California 94709

Witness \_\_\_\_\_

Address \_\_\_\_\_

Witness \_\_\_\_\_

Address \_\_\_\_\_

Inventor Igor Kozintsev Date 4/15/2002  
**Igor Kozintsev**

Address 4913 Anna Drive  
San Jose, California 95124

Witness Alexander Reshetov

Address 1455 Saratoga Ave 2005  
San Jose CA 95128

Witness Rainer Lienhart

Address 2727 FORBES AVE  
Santa Clara, CA 95051