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PATENT

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UMENO Ken

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Execution Date: 03/01/2000

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

Name: Communications Research Laboratory Ministry of Post and Telecommunications

Internal Address: \_\_\_\_\_

Street Address: 2-1, Nukuikitamachi 4-chome,  
Koganei-shi

City: Tokyo State: JP Zip: 184-8795

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

10638079

If this document is being filed together with a new application, the execution date of the application is: 08/07/2003

A. Patent Application No.(s) \_\_\_\_\_

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

Additional numbers attached? ☐ Yes ☒ No

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

Name: Mitchell P. Brook

Internal Address: \_\_\_\_\_

Luce, Forward, Hamilton &amp; Scripps

Street Address: \_\_\_\_\_

11988 El Camino Real, Suite 200

City: San Diego State: CA Zip: 92130

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

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

- ☒ Enclosed  
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## 9. Signature.

David E. Heisey  
Name of Person Signing

Signature

August 7, 2003  
Date

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

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10/638079



08/07/03

PATENT  
REEL: 014388 FRAME: 0297

## ASSIGNMENT

In return for good and valuable consideration paid to the undersigned inventor(s) (hereafter called the "ASSIGNOR"), by:

Communications Research Laboratory, Ministry of Posts and Telecommunications

2-1, Nukuikitamachi 4-chome, Koganei-shi, Tokyo 184-8795, Japan

(50% owner)

AND

Ken UMENO

c/o Communications Research Laboratory, Ministry of Posts and Telecommunications

2-1, Nukuikitamachi 4-chome, Koganei-shi, Tokyo 184-8795, Japan

(50% owner)

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR(s) hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled:

APPARATUS AND METHOD FOR OUTPUTTING SEQUENCE OF VECTORS, DATA RECORDING MEDIUM,

AND CARRIER WAVE SIGNAL

for which application for Letters Patent of the United States was executed on even date herewith unless indicated otherwise below

\*filed on \_\_\_\_\_ [date], Serial No. \_\_\_\_\_

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR(s) agrees to execute all papers necessary in connection with the application and any continuation, divisional, substitute, reissue or reexamination applications thereof or corresponding foreign applications, and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The ASSIGNOR(s) agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding, which may be declared concerning this application or any continuation, divisional, substitute, reissue or reexamination thereof, or corresponding foreign applications, and also to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference, litigation, or other legal proceeding.

The ASSIGNOR(s) agrees to perform all affirmative acts which may be necessary to obtain a grant of valid United States or foreign patents to the Assignee.

The ASSIGNOR(s) hereby authorizes and requests the Commissioner of Patents and the authorities of foreign countries to issue any and all Letters Patents resulting from said application or any continuation, divisional, substitute, reissue or reexamination applications thereof, or foreign applications, to the said ASSIGNEE, as assignee of the entire interest, and hereby covenants that it has full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

The ASSIGNOR(s) hereby agrees that this Assignment is binding on the heirs, assigns, representatives and successors of the ASSIGNOR(s) and extends to the successors, assigns and nominees of the ASSIGNEE.

The ASSIGNOR(s) hereby grant MITCHELL P. BROOK, Reg. No. 32,967, LAURA L. PETERSON, Reg. No. 38,021, ADAM L.K. PHILIPP, Reg. No. 42,071, DAVID I. ROCHE, Reg. No. 30,767, PHILIP J. ZADEIK, Reg. No. 31,444 and RICHARD T. ROCHE, Reg. No. 38,599, all attorneys with the firm of BAKER & MCKENZIE which has an office address at 101 West Broadway, 12th Floor, San Diego, CA 92101-3890, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u><i>Ken Umeno</i></u>	<u>Ken UMENO</u>	<u>March 2, 2000</u>
(Signature)	(Type Name)	(Date)

_____	_____	_____
(Signature)	(Type Name)	(Date)

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(Signature)	(Type Name)	(Date)

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(Signature)	(Type Name)	(Date)

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(Signature)	(Type Name)	(Date)

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