

09-27-1999

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Attorney's Docket No. 032590-028

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

1. Name of conveying party(ies):

Yoshihiro Kumagai; Akio Ichikawa; Rikiko Oida;
Masataka Nakazawa and Eiji Yoshida

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other: _____

Execution Date: September 2, 1999

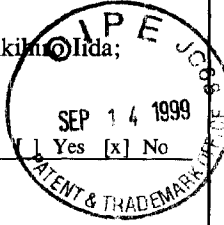
2. Name and address of receiving party(ies):

Name: (1) Ando Electric Co., Ltd.

Address: 19-7, Kamata 4-chome

Ota-ku, Tokyo, Japan

Additional name(s) & address(es) attached? Yes 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)

09/349,225

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Robert E. Krebs, Esq.

Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404

Alexandria, Virginia 22313-1404

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, if necessary

8. Deposit account number:

02-4800

DO NOT USE THIS SPACE

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.

Robert E. Krebs, Esq.
Name of Person Signing

Signature

September 13, 1999
Date

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

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

09/24/1999 DNGUYEN 00000299 09349225

01 FC:581

40.00 DP

- (2) Nippon Telegraph & Telephone Corporation
3-1, Otemachi 2-chome, Chiyoda-ku,
Tokyo, Japan

**ASSIGNMENT
 (JOINT)**

THIS ASSIGNMENT, by (1) Yoshihiro Kumagai; (2) Akio Ichikawa;
(3) Rikihiro Iida; (4) Masataka Nakazawa; and
(5) Eiji Yoshida, residing at (1) - (5): Tokyo, Japan

_____ (hereinafter referred to as "the Assignors"),
 respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in
OPTICAL PULSE GENERATOR

which is a provisional application to be filed herewith; which is a non-provisional application
 having an oath or declaration executed on even date herewith prior to filing of application;
 bearing Application No. 09/349,225, and filed on July 8, 1999; and

(1) Ando Electric Co., Ltd.; and
 WHEREAS, (2) NIPPON TELEGRAPH AND TELEPHONE CORPORATION, a corporation
 duly organized under and pursuant to the laws of Japan, and having its principal place of business
(1) 19-7, Kamata 4-chome, Ota-ku, Tokyo, Japan; and
 at (2) 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo, Japan (hereinafter referred to as
 "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions,
 the right to file applications on said inventions and the entire right, title and interest in and to any
 applications, including provisional applications for Letters Patent of the United States or other
 countries claiming priority to said application, and in and to any Letters Patent or Patents, United
 States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
 sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold,
 assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over,
 unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and
 interest in and to the above-mentioned inventions, the right to file applications on said inventions
 and the entire right, title and interest in and to any applications for Letters Patent of the United
 States or other countries claiming priority to said application, and any and all Letters Patent or
 Patents of the United States of America and all foreign countries that may be granted therefor and
 thereon, and in and to any and all applications claiming priority to said applications, divisions,
 continuations, and continuations-in-part of said applications, and reissues and extensions of said
 Letters Patent or Patents, and all rights under the International Convention for the Protection of
 Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf
 and the use and behalf of its successors, legal representatives, and assigns, to the full end of the
 term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same
 would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with
 the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and
 delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title,
 and interest in and to the inventions set forth in said applications and said applications, including
 provisional applications, above-mentioned, and that the same are unencumbered, and that the
 Assignors have good and full right and lawful authority to sell and convey the same in the manner
 herein set forth;

Application No. 09/349,225
Attorney's Docket No. 032590-028

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date September 2, 1999 Signature of Assignor *Yoshihiro Kumagai*
Yoshihiro Kumagai

Date September 2, 1999 Signature of Assignor *Akio Ichikawa*
Akio Ichikawa

Date September 2, 1999 Signature of Assignor *Rikihiro Iida*
Rikihiro Iida

Date September 2, 1999 Signature of Assignor *Masataka Nakazawa*
Masataka Nakazawa

Date September 2, 1999 Signature of Assignor *Eiji Yoshida*
Eiji Yoshida

Date _____ Signature of Assignor _____

Date _____ Signature of Assignor _____

Date _____ Signature of Assignor _____