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Dated: October 1, 2002

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10-10-2002

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Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)



102246541

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

(a)Kuninori Shino, (b)Yoshinobu Kure, (C)Kazuyoshi Horie, (d) Youichi Toriumi, (e) Yoshifumi Masuda, and (f) Kazuhito Nagura

Additional name(s) of conveying party(ies) attached?

☐ Yes

☒ No

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

(a) April 5, 2002; (b) April 9, 2002;
(c) April 5, 2002; (d) April 5, 2002;
(e) April 23, 2002; (f) April 23, 2002

Execution Date:

2002

2. Name and address of receiving party(ies)

Name: Sony Corporation

Internal Address:

Street Address:

7-35, Kitashinagawa 6-chome
Shinagawa-ku

City: Tokyo

State: Japan

Zip: 141-0001

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 new application is:

A. Patent Application No.(s):

10/019,332

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 B. Cohen
LERNER, DAVID, LITTENBERG, KRUMHOLZ &
MENTLIK, LLP

Internal Address:

Street Address: 600 South Avenue West

City:
Westfield

State: NJ Zip:
07090

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41)

\$ 40.00

☐ Enclosed

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8. Deposit account number:

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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 B. Cohen
Name of Person Signing

Signature

October 1, 2002
Date

Total number of pages including cover sheet, attachments, and documents: 8

10/09/2002 6TON11 00000052 121095 10019332
01 FC:581 40.00 CH

PATENT
REEL: 013357 FRAME: 0892

**RECORDATION FORM COVER SHEET
(continued)****Additional Conveying Party(ies) (1. Continued):****Additional Assignees (2. Continued):**Assignee Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagaikecho
Abeno-ku
Osaka-shiCity: Osaka State: Japan Zip Code: 545-8522

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Zip Code: _____

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Zip Code: _____

Additional Applications and/or Patents (4. Continued):Additional Patent Application Numbers
4A. Continued:Additional Patent Numbers
4B. Continued:

Additional numbers attached?

☐

Yes

☐

No

07-02-2002



102141169

Form PTO-1595
(Rev. 03/01)
OMB No. 0651-0027 (exp. 5/31/2002)

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

Kuninori Shino, Yoshinobu Kure, Kazuyoshi Horie,
Youichi Toriumi, Yoshifumi Masuda, and Kazuhito
Nagura

Additional name(s) of conveying party(ies)
attached?

☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: April 23, 2002

2. Name and address of receiving party(ies)

Name: Sony Corporation

Internal Address:

Street Address:

7-35, Kitashinagawa 6-chome
Shinagawa-ku

City: Tokyo

State: Japan

Zip: 141-0001

Additional name(s) &
address(es) attached:

☒ Yes ☐ No

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

A. Patent Application No.(s):

10/019,332

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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(Form 2038 enclosed)

8. Deposit account number:

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy
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Robert B. Cohen
Name of Person Signing

Signature

June 21, 2002
Date

Total number of pages including cover sheet, attachments, and documents: 4

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01 FC:581 40.00 CH

374787

PATENT
REEL: 013357 FRAME: 0894

**RECORDATION FORM COVER SHEET
(continued)**

Additional Conveying Party(ies) (1. Continued):

Additional Assignees (2. Continued):

Assignee Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagaikecho
Abeno-ku
Osaka-shiCity: Osaka State: Japan Zip Code: 545-8522

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Zip Code: _____

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Zip Code: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers
4A. Continued:Additional Patent Numbers
4B. Continued:

Additional numbers attached?

☐

Yes

☐

No

• U.S. Patent Application
Witness

ASSIGNMENT

WHEREAS, Kuninori SHINO, Yoshinobu KURE, Kazuyoshi HORIE and Youichi TORIUMI, of c/o Sony Corporation, 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan, and Yoshifumi MASUDA and Kazuhito NAGURA both of c/o Sharp Kabushiki Kaisha, 22-22, Nagaichecho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan, as assignors, have invented improvements in

OPTICAL COMMUNICATION METHOD AND APPARATUS

for which an International Application was filed on April 25, 2001 as PCT/JP01/03584, designating the United States.

AND WHEREAS, SONY CORPORATION, a corporation of Japan, having a place of business at 7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001 Japan, and SHARP KABUSHIKI KAISHA, a corporation of Japan, having a place of business at 22-22, Nagaichecho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan, as assignees, are desirous of acquiring all right, title and interest in and to said invention and any Letters Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we as assignors hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid application for Letters Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for himself and his legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And we do hereby authorize our attorneys to insert on this deed the filing date and serial number of said application when known.

April 5, 2002

Date

Kuninori Shino

Kuninori SHINO

Yoshiko Izuhara

Witness

April 9, 2002

Date

Yoshinobu Kure

Yoshinobu KURE

Yoshiko Izuhara

Witness

4/5/02
Date

Kazuyoshi HORIE
Kazuyoshi HORIE

Yoshiko Izuhara
Witness

April 5/2002
Date

Yoshiichi Toriumi
Yoshiichi TORIUMI

Yoshiko Izuhara
Witness

April 23, 2002
Date

Yoshifumi Masuda
Yoshifumi MASUDA

Kazuhiko Matsukasa
Witness

April 23, 2002
Date

Kazuhito Nagura
Kazuhito NAGURA

Kazuhiko Matsukasa
Witness