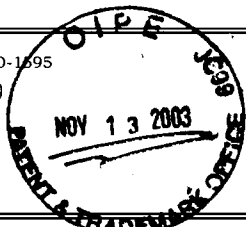


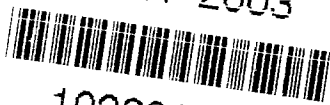
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10/466865A

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

1. Name of conveying party(ies):

Miki AMANO
Suguru TOYOKAWA
Takashi MURAI
Manabu KUSAKA
Masahiro OHARA
Reiko AOYAMA

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

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

Name: Sharp Kabushiki Kaisha
 Address: 22-22, Nagaike-cho, Abeno-ku
Osaka-shi, Osaka 545-8522
 Country: JAPAN

Name: NTT-ME Corporation
 Address: 1-105, Kandajinbocho
Chiyoda-ku, Tokyo 101-8413
 Country: JAPAN

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

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: July 8, 2003 and July 24, 2003.

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): 10/466,865 B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: David G. Conlin (Reg. No.: 27,026)
 Street Address: EDWARDS & ANGELL, LLP
 P.O. Box 9169
 City: Boston State: MA Zip: 02209

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

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

Steven M. Jensen (Reg. No. 42,693)
Name of Person Signing

Signature

Date

11/11/03

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

Attorney's Docket No.: 59568 (72012)**Assignment of Application**

WHEREAS, I (WE) _____

Miki AMANO of Sobi-ryo 441, 3-2-8, Atobekitano-cho, Yao-shi, Osaka 581-0068 Japan,Suguru TOYOKAWA of Prime-Heights K202, 34-19, Machiyacho, Kanazawa-ku,Yokohama-shi, Kanagawa 236-0022 Japan,Takashi MURAI of Famile-Tana 102, 34-1, Tanacho, Aoba-ku, Yokohama-shi,Kanagawa 227-0064 Japan,Manabu KUSAKA of NTT-Kokubunji Hanazawa Ryo A202, 2-4-1, Honda,Kokubunji-shi, Tokyo 185-0011 Japan,Masahiro OHARA of 2-20-5-107, Suehiro, Ichikawa-shi, Chiba 272-0121 Japan,Reiko AOYAMA of 5-21-10(33), Nukuiminami-cho, Koganei-shi, Tokyo 184-0014 Japan_____, respectively,
have invented certain new and useful improvements in: CONTROL SYSTEMfor which an application for Letters Patent was executed on 8th and 24th of July, 2003
(Application No. 10/466,865, filed July 15, 2003), andWHEREAS, SHARP KABUSHIKI KAISHA and NTT-ME CORPORATION

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____

22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan and1-105, Kandajinbocho, Chiyoda-ku, Tokyo 101-8413 Japan, respectively

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, 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 me (us) had this Assignment and sale not been made.

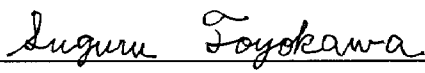
Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Dike, Bronstein, Roberts & Cushman Intellectual Property Group of Edwards & Angell, LLP of 130 Water Street, Boston, Massachusetts 02109 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: July 8, 2003


 (Signature of inventor) Miki AMANO

Date: July 8, 2003


 (Signature of inventor) Suguru TOYOKAWA

Date: July 8, 2003

Takashi Murai
(Signature of inventor) Takashi MURAI

Date: July 24, 2003

Manabu Kusaka
(Signature of inventor) Manabu KUSAKA

Date: July 24, 2003

Masahiro Ohara
(Signature of inventor) Masahiro OHARA

Date: July 24, 2003

Reiko Aoyama
(Signature of inventor) Reiko AOYAMA