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U.S. PATENT  
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102046648

No. 112435

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. A. Name of conveying parties:

Yuji NAKURA  
Hitoshi IMAZU  
Kazuhiro ASADA

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

☐ Yes ☒ No

2. A. Name and address of receiving party:

- 1) AUTONETWORKS TECHNOLOGIES, LTD.  
7-10, KIKUZUMI 1-CHOME, MINAMI-KU,  
NAGOYA-SHI, AICHI, JAPAN
- 2) SUMITOMO WIRING SYSTEMS, LTD.  
1-14, NISHISUEHIRO-CHO, YOKKAICHI-SHI,  
MIE, JAPAN
- 3) SUMITOMO ELECTRIC INDUSTRIES, LTD.  
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B. Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. A. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

B. Execution Date: March 28, 2002

4. A. If this document is being filed together with a new application, the execution date of the application is: March 28, 2002

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

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

Additional numbers attached? ☐ Yes ☒ No

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

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, VA 22320**

6. Total number of applications and patents involved: 1

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

B. Enclosed (Check No. 129322)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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.*

James A. Oliff Registration No. 27,075  
Joel S. Armstrong Registration No. 36,430

Date: March 29, 2002

Total number of pages including cover sheet, attachments, and document: 2

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PATENT  
REEL: 012748 FRAME: 0374

(1-8) Insert Name(s) of Inventor(s)

(1) Yuji NAKURA (5) \_\_\_\_\_  
 (2) Hitoshi IMAZU (6) \_\_\_\_\_  
 (3) Kazuhiro ASADA (7) \_\_\_\_\_ and  
 (4) \_\_\_\_\_ (8) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee (9) See Attached Sheet  
 (10) Insert Address of Assignee (10) See Attached Sheet

(hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all divisions, continuations, substitutes, and reissues, and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification, such as Title, Case Number or Foreign Application Number (11) OPTICAL CONNECTOR  
 (Case No. 112435)

for which the undersigned has (have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12) on March 28, 2002

(13) Alternative Identification for filed applications (13) U.S. application Serial Number \_\_\_\_\_  
 filed March 29, 2002

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents 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.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict herewith.

6) The undersigned hereby grant(s) the firm of OLIFF & BERRIDGE 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, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date March 28, 2002 Name of Inventor Yuji Nakura (SEAL)  
 Date March 28, 2002 Name of Inventor Hitoshi Imazu (SEAL)  
 Date March 28, 2002 Name of Inventor Kazuhiro Asada (SEAL)  
 Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (SEAL)  
 Date \_\_\_\_\_ Name of Inventor \_\_\_\_\_ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Witness \_\_\_\_\_  
 Date \_\_\_\_\_ Witness \_\_\_\_\_

- (9) (1) AUTONETWORKS TECHNOLOGIES, LTD.  
(2) SUMITOMO WIRING SYSTEMS, LTD.  
(3) SUMITOMO ELECTRIC INDUSTRIES, LTD.
- (10) (1) 7-10, Kikuzumi 1-chome, Minami-ku, Nagoya-shi, Aichi, Japan  
(2) 1-14, Nishisuehiro-cho, Yokkaichi-shi, Mie, Japan  
(3) 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka, Japan