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1. Name of conveying party: 11/21/02  
**Keiji Mine, Hiroshi Nakagawa and Takeshi Isoda**  
Additional names attached  Yes  No

2. Name and address of receiving party(ies):  
**Hosiden Corporation**  
**4-33, Kitakyuhoji 1-chome, Yao-shi**  
**Osaka, Japan**

3. Nature of Conveyance:  
 Assignment  Change of Name  
 Other:

Execution Date: **11/8/02**

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

4. Application Number or Patent Number

If this document is being filed together with a new application, the execution date of the application is: **11/8/02**

Application Number \_\_\_\_\_

Patent Number \_\_\_\_\_

If checked, additional numbers are attached

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

**David N. Lathrop, Esquire**  
**GALLAGHER & LATHROP**  
**A Professional Corporation**  
**601 California Street, Suite 1111**  
**San Francisco, CA 94108-2805**

6. Total Number of applications and patents involved: **1**

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

Enclosed  
 Charge to deposit account (copy attached)

8. Deposit account number: **07-0137**

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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 or the original document.*

David N. Lathrop

November 21, 2002

Name

Signature

Date

Total # pages including cover sheet:  3

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10/30/02  
11/21/02

# ASSIGNMENT

I am an inventor of a new invention entitled

"OPTICAL COUPLING DEVICE FOR TWO-WAY OPTICAL COMMUNICATIONS"

by Keiji Mine, Hiroshi Nakagawa and Takeshi Isoda such invention being described in and identified by

- the patent application filed herewith and executed on November 8, 2002.
- United States application Serial Number \_\_\_\_\_ filed on \_\_\_\_\_.
- international application number \_\_\_\_\_ filed under the Patent Cooperation treaty on \_\_\_\_\_.

HOSIDEN CORPORATION, whose address is 4-33, Kitakyuhoji 1-chome, Yao-shi, Osaka, Japan, hereinafter referred to as ASSIGNEE, is desirous of acquiring my entire right, title and interest in and to said application and said invention, in and to any and all improvements relating to said invention, and in and to each and every Patent thereon, when granted in the United States.

For good and valuable consideration, the receipt of which is acknowledged:

1. I sell, assign, transfer and convey unto ASSIGNEE, my entire right, title and interest:
  - (a) in and to said invention and application, any and all improvements relating to said invention and application, and each and every additional application filed in the United States of America, which additional application is a division, substitution, continuation or continuation-in-part of, is based on or claims priority of said application, or which additional application relates to said invention and improvements;
  - (b) all priority rights associated with the filing of each and every such application, and
  - (c) in and to each and every Patent on said invention and improvements that may be granted, including each and every Patent that may be granted on any of the applications referred to in sub-section (a), and in and to each and every reissue, re-examination or extension of each and every such Patent.
2. I warrant, covenant and represent the fact that I have not heretofore granted any license, right or privilege in the United States of America with respect to said invention or said application to any other, or in any other way encumbered the same, and that I have the full right to sell, assign, transfer and convey, free of all licenses and encumbrances, the entire interest hereby assigned.

Docket: KPO159

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Initials: \_\_\_\_\_

3. I covenant that, at the request and expense of ASSIGNEE, I will promptly execute all papers necessary or desirable to perfect ownership of said invention, applications and said each and every Patent to ASSIGNEE, and execute all oaths, declarations and other papers necessary or desirable for prosecuting said applications, for use in interference proceedings involving said invention, applications and each and every Patent, for use in opposition proceedings involving said invention, applications and each and every Patent, for refiling said applications, for filing of divisional, substitution, continuation or continuation-in-part applications deemed necessary or desirable by ASSIGNEE, for reissuance or re-examination of said each and every Patent. I further covenant and agree that, at the expense and request of ASSIGNEE, I will promptly assist ASSIGNEE in interference and opposition proceedings involving said invention, applications and each and every Patent, and in litigation involving said invention, applications and each and every Patent, and will assist in the ascertainment of facts and the production of evidence relating to said invention, applications and each and every Patent.

4. The terms, covenants and provisions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon me, my heirs, legal representatives and assigns.

Keiji Mine, a resident of Osaka, Japan

Keiji Mine  
Signature

November 8, 2002  
Date

Hiroshi Nakagawa, a resident of Kyoto, Japan

Hiroshi Nakagawa  
Signature

November 8, 2002  
Date

Takeshi Isoda, a resident of Osaka, Japan

Takeshi Isoda  
Signature

November 8, 2002  
Date