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IZUMI, KATSUHIKO
ONISHI, KUNIKAZU
SHIMADA, KENICHI
INOUE, MASYAYUKI
FUJITA, SHINJI

5.15.02

2. Name and address of receiving party(ies)
 Name: 1) **HITACHI, LTD.**
 2) **Hitachi Media Electronics Co., Ltd.**
 Internal
 Address: 1) **6, Kanda Surugadai 4-chome,**
Chiyoda-ku, Tokyo, Japan
 2) **1, Kitano, Shinjo Mizusawa-shi**
Iwate-ken, Japan

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

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

Execution Date: **January 17, 17, 17, 17, 23, 2001.**

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)
09/726,557 filed December 1, 2000

B. Patent Registration No.(s)

Additional number(s) attached Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: **Antonelli, Terry, Stout & Kraus, LLP**
 Internal Address:
1300 North Seventeenth Street
Suite 1800
Arlington, VA 22209
USA
 City: _____ State: _____ Zip: _____

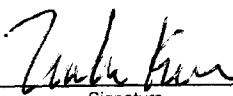
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Melvin Kraus  **May 15, 2002**

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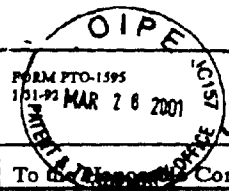
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05/16/2002 BABRWAI 00000088 09726557

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40.00 OP

PATENT REEL: 012893 FRAME: 0679



3-28-01

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04-04-2001
101667370

Docket No.: 500.39370X00

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

1. Name of conveying party(ies):
Katsuhiko IZUMI; Kunikazu OHNISHI; Kenichi SHIMADA;
Masayuki INOUE; Shinji FUJITA

2. Name and address of receiving party(ies):
Name: Hitachi, Ltd.
Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku
City: Tokyo
Country: Japan

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: January 17, 2001 and January 23, 2001

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

4. Application number(s) or patent number(s): 09/726,557
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s)
(03/30/2001 MPERHT 00000004 09726557
03 FC:581 40.00 OP)
B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP
Internal Address:
Street Address: 1300 North Seventeenth Street
Suite 1800
City: Arlington State: VA Zip: 22209

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41)\$40.00
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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.
Gregory E. Montone _____ Signature
Name of Person Signing
Attorney Registration No. 29,621
Date: March 28, 2001
Total number of pages including cover sheet, attachments, and document: 2

OMB No. 0651-0011 (exp. 4/94)

PATENT REEL: 011634 FRAME: 0860

PATENT REEL: 012893 FRAME: 0680

E5624-01
(*)

ASSIGNMENT
(讓渡証)

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Katsuhiko IZUMI, Kunikazu OHNISHI, Kenichi SHIMADA, Masayuki INOUE and Shinji FUJITA citizens of Japan by HITACHI, LTD. and Hitachi Media Electronics Co., Ltd. corporations organized under the laws of Japan,

located at 8, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan and 1, Kitano, Shinjo Mizusawa-shi Iwate-ken, Japan, respectively,

receipt of which is hereby acknowledged, we, the said Katsuhiko IZUMI, Kunikazu OHNISHI, Kenichi SHIMADA, Masayuki INOUE and Shinji FUJITA

do hereby sell and assign to said HITACHI, LTD. and Hitachi Media Electronics Co., Ltd.

their successors and assigns, all our right, title and interest, in and for the United States of America, in and to OPTICAL DETECTOR, OPTICAL PICKUP AND OPTICAL INFORMATION REPRODUCING APPARATUS USING OPTICAL PICKUP *U.S. Serial No.09/726,557 filed on December 1, 2000

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD. and Hitachi Media Electronics Co., Ltd.

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD. and Hitachi Media Electronics Co., Ltd.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)
(発明者フルネームサイン)

Date Signed
(署名日)

1)	<u>Katsuhiko Izumi</u>	<u>January 17, 2001</u>
2)	<u>Kunikazu Ohnishi</u>	<u>1/17/01</u>
3)	<u>Kenichi Shimada</u>	<u>1/17/01</u>
4)	<u>Masayuki Inoue</u>	<u>1/17/01</u>
5)	<u>Shinji Fujita</u>	<u>January 23, 2001</u>
6)	_____	_____
7)	_____	_____
8)	_____	_____
9)	_____	_____

RECORDED: 03/28/2001

PATENT
REEL: 011634 FRAME: 0861

RECORDED: 05/15/2002

PATENT
REEL: 012893 FRAME: 0681