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TO THE ASSISTANT COMMISSIONER OF SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

101794118

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

- 1. Shinji ISHIKAWA
- 2. Toru IWASHIMA
- 3. Michiko HARUMOTO
- 4. Akira INOUE
- 5. Masakazu SHIGEHARA
- 6.
- 7.
- 8.

07/23/01

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

Case U.S. PTO
09/09897
07/23/01

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: SUMITOMO ELECTRIC INDUSTRIES, LTD.

ADDRESS: 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

- ASSIGNMENT OF WHOLE PART INTEREST
- ORIGINAL FACSIMILE/PHOTOCOPY
- CHANGE OF NAME VERIFIED TRANSLATION
- SECURITY MERGER OTHER:

EXEC. DATE: June 17, 1999

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) June 17, 1999

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
Divisional Application	0279037		077909897		

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons Boulevard

McLean, VA 22102

6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 0279037	SEI 97-45A US
MATTER NO.	CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
UNDER ORDER NO	007898	0279037
dup. sheet not required	CLIENT NO.	MATTER NO.

9.

Signature

Attorney: Glenn J. Perry
Reg. No. 28458
Atty/Sec: gjp/dae

TEL: (703) 905-2161

Date: July 29, 2001

FAX: (703) 905-2500

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)

2

FILE WITH PTO RETURN RECEIPT (PAT-103A)

07/25/2001 MAILINGS 00000056 09009897

02 FC:581

40.00 DP

Please return signed/recorded to:
Pillsbury Madison & Sutro LLP
Intellectual Property Group
Ninth Floor, East Tower
1100 New York Avenue, N.W.
Washington, D.C. 20005-3918

For Inventors made outside USA
executed with or after application
Atty. Dkt. PMS 262227 SEI 97-45A US
M# Client Ref.

USA Patent Appln.
Sole or Joint

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Shinji ISHIKAWA	(4) Akira INOUE
	(2) Toru IWASHIMA	(5) Masakazu SHIGEHARA
	(3) Michiko HARUMOTO	<input type="checkbox"/> x box if continued on page 2

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

SUMITOMO ELECTRIC INDUSTRIES, LTD.
5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan

(hereinafter designated "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 all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

METHOD FOR DETERMINING AN AGING CONDITION FOR AN OPTICAL WAVEGUIDE GRATING AND TEMPERATURE SENSOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) even date herewith
(B) on _____
line A, B and/or C) (C) in U.S. Appln. No. _____ / _____ filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Cushman Darby & Cushman Intellectual Property Group of Pillsbury Madison & Sutro, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS	DATE SIGNED	WITNESSES
1): <u>Shinji Ishikawa</u> Name: Shinji ISHIKAWA	<u>June 17, 1999</u>	_____
2): <u>Toru Iwashima</u> Name: Toru IWASHIMA	<u>June 17, 1999</u>	_____
3): <u>Michiko Harumoto</u> Name: Michiko HARUMOTO	<u>June 17, 1999</u>	_____
4): <u>Akira Inoue</u> Name: Akira INOUE	<u>June 17, 1999</u>	_____
5): <u>Masakazu Shigehara</u> Name: Masakazu SHIGEHARA	<u>June 17, 1999</u>	_____

PAT-114 11/97