

BOX ASSIGNMENTS

07-30-1998

USE FOR TRADEMARKS

RECORDA
PATENT APPL. 100779300

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS:

SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

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

1. HORIUCHI, Takahiko

2.

3.

4.

5.

6.

7.

8.

9.

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

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

NAME: TSUKUBA, SOFTWARE LABORATORY CO., LTD

ADDRESS: 1089-11, Heta, Ooaza, Iwai city, Ibaraki, 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

EXEC. DATE: June 15, 1998

☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION☐ SECURITY ☐ MERGER ☐ OTHER:

4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) June 15, 1998

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#	1ST INVENTOR if not in item 1	B. PATENT NO(S)	M#	1ST INVENTOR if not in item 1
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New Appln.	255044				
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5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Madison & Sutro LLP
Intellectual Property Group
1100 NEW YORK AVENUE, N.W.
NINTH FLOOR, EAST TOWER
WASHINGTON, D.C. 20005-3918

6. NUMBER INVOLVED:

APPLNS + PATS: = TOTAL

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL X \$40 = 40

5.5 ATTY DKT:

255044

KT-324

MATTER NO.

CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO

41267

255044

dup. sheet not required

CLIENT NO.

MATTER NO.

07/27/1998 JARTIS 00000031 09120460

07 FC:581

40.00.00

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.

Signature

Attorney: Glenn J. Perry

Reg. No. 28,458

Atty/Sec: GJP:mhn TEL: (202) 861-3070

Date: July 23, 1998

Fax: (202) 822-0944

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)

PATENT

PAT-114X 12/1997

REEL: 9341 FRAME: 0960

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

USA Patent Appln.
Sole or Joint

For Inventions made outside USA
executed with or after application
Atty. Dkt. 255044 KT-324
M# Client Ref.

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) Takahiko Horiuchi	(4)
(2)	(5)
(3)	[] x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s) assign(s) and transfer(s) unto:

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

TSUKUBA SOFTWARE LABORATORY CO., LTD.
1089-11, Heta, Ooaza, Iwai City, Ibaraki, 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

COMMUNICATION APPARATUS AND METHOD OF COLOR PICTURES AND
CONTINUALLY-CHANGING TONE PICTURES

for which the undersigned executed an application for Letters Patent of the United States of America.

NOTE →→
(Complete
line A, B and/or C)

- (A) ☐ even date herewith
(B) ☐ on _____
(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.

INVENTOR(S)

DATE SIGNED

WITNESSES

1) <u>Takahiko Horiuchi</u>	<u>15 June 1998</u>	<u>Rieko Horiuchi</u>
Name: Takahiko Horiuchi		Name: Rieko Horiuchi
2) _____	_____	_____
Name: _____		
3) _____	_____	_____
Name: _____		
4) _____	_____	_____
Name: _____		
5) _____	_____	_____
Name: _____		

IF ADDITIONAL INVENTORS, check box ☐ and continue on page 2.

MAD 7-73-98

RECORDATION FORM COVER SHEET
PATENTS ONLY

PTO
09/12/93
07/23/98

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

<p>1. Name of conveying party(ies): Yoshiki Nishibayashi</p> <p>Additional name(s) of conveying parties attached? - <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date(s): <u>7/20/98</u></p>	<p>2. Name and address of receiving party(ies): Name: <u>Sumitomo Electric Industries, Ltd.</u> Address: <u>5-33, Kitahama 4-chome, Chuo-ku</u> <u>Osaka-shi, Osaka 541, Japan</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
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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: (Date) 7/20/98

A. Patent Application No.(s) <u>09-120 453</u>	B. Patent No.(s)
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Additional numbers attached? ☐ Yes ☒ No

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Beveridge, DeGrandi, Weilacher & Young, L.L.P. 1850 M Street, N.W. Suite 800 Washington, DC 20036</p> <p>Attorney Docket No. <u>06-55002</u></p>	<p>6. Total number of applications and patents involved (number) <u>1</u></p> <p>7. Total fee (37 CFR 3.41):\$ <u>40</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Charge to deposit account <input type="checkbox"/> Other _____</p> <p>8. Deposit account number: <u>02-4300</u></p> <p>(Attached duplicate copy of this page if paying by deposit account)</p>
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DO NOT USE THIS SPACE

07/27/1998 10:11:53 00000030 09120453
02 FC:581

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.

<u>Robert G. Weilacher</u>	<u>[Signature]</u>	<u>July 23, 1998</u>
Name of Person Signing	Signature	Date

Reg. No. 20531 Total no. of pages (including cover sheet, attachments & documents): 3

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title) _____
HEAT SINK FOR SEMICONDUCTORS AND MANUFACTURING PROCESS THEREOF

The PATENT RIGHTS referred to in this agreement are:

- (check one) ☒ a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment.
- ☐ U.S. patent application Serial No. _____, filed _____.
 - ☐ a U.S. patent application based on PCT International Application No. _____ filed on (date) _____ (U.S. patent application Serial No. _____, if known).
 - ☐ U.S. patent No. _____, issued _____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

- (check one) ☒ U.S. patent rights only.
- ☐ Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) Sumitomo Electric Industries, Ltd.

(Address) 5-33, Kitabama 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0041 Japan

The ASSIGNEE is:

- (check one) ☐ An Individual.
- ☐ A Partnership.
 - ☒ A Corporation of Japan (specify state or country)
 - ☐ (other) _____

The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;
the entire right, title and interest in and to the PATENT RIGHTS;
the right to sue and recover for any past infringement; and,
the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable provisions, based on any earlier patent applications for this invention.

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO

ASSIGNEE: Sumitomo Electric Industries, Ltd.

INVENTION TITLE: HEAT SINK FOR SEMICONDUCTORS AND MANUFACTURING PROCESS
THEREOF

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

<u>Yoshiki Nishibayashi</u> Name of sole or first inventor	<u>Yoshiki Nishibayashi</u> Signature	<u>Jul. 20. 1998</u> Date
 Name of second inventor, if any	 Signature	 Date
 Name of third inventor, if any	 Signature	 Date
 Name of fourth inventor, if any	 Signature	 Date
 Name of fifth inventor, if any	 Signature	 Date
 Name of sixth inventor, if any	 Signature	 Date
 Name of seventh inventor, if any	 Signature	 Date
 Name of eighth inventor, if any	 Signature	 Date
 Name of ninth inventor, if any	 Signature	 Date