

09-02-1998

BOX ASSIGNMENTS

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PAT

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

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

1. Tomio SUGIYAMA  
3. Masahiro SHIBATA2. Naoto MIWA  
4. Hiromi SANO5.  
7.6.  
8.ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

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

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 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 INTERESTEXEC. DATE: 1st & 2nd July 17, 1998  
3rd July 28, 1998 4th July 19, 1998☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) July 17, 19, &amp; 28, 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#	1 <sup>st</sup> INVENTOR If not in item 1	B. PATENT NO.(S)	M#	1 <sup>st</sup> INVENTOR If not in item 1
09/092,647	254642				

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 1 + PATS 0 = TOTAL 1

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

5.5 ATTY DKT:

PMS 254642	US-9815-TS	UNDER ORDER NO	60388	254642
MATTER NO.	CLIENT REF.	dup. sheet not required	CLIENT NO.	MATTER NO.

## 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. 28458

Atty/Sec: GJP/k

TEL: (202) 861-3070

Date: August 21, 1998

FAX: (202) 822-0944

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

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FILE WITH PTO RETURN RECEIPT (PAT-103A)

PATENT

PAT-114X 3/98

REEL: 9409 FRAME: 0735

MRD 8-21-98

09/092,647  
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08/26/1998  
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USA Patent Appln.  
Sole or Joint

For Inventions made outside USA  
executed with or after application

Atty. Dkt. 254642 US-9815-TS  
M# Client Ref.

NONPROVISIONAL

NONPROVISIONAL

## ASSIGNMENT OF NONPROVISIONAL APPLICATION

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) Tomio SUGIYAMA

(4) Hiromi SANO

(2) Naoto MIWA

(5)

(3) Masahiro SHIBATA

[ ] 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)

DENSO CORPORATION

of 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 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

NOx SENSOR AND MANUFACTURING METHOD OF THE SAME

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 July 17, 19 and 28, 1998

(C) ☒ in U.S. Appl. No. 09/092,647 filed June 9, 1998

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) Pillsbury Madison & Sutro, Intellectual Property Group, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

### INVENTOR(S)

### DATE SIGNED

### WITNESSES

1) Tomio Sugiyama  
Name: Tomio Sugiyama

July 17, 1998

July 17, 1998 Hiroshi Sugino

2) Naoto Miwa  
Name: Naoto Miwa

July 17, 1998

Yoko Tsuzuki

3) Masahiro Shibata (Deceased)  
Name: Masahiro Shibata (Deceased)

July 28 1998

Yukako Uchiyama

Midori Shibata  
Name: By: Midori Shibata (Spouse), Legal Representative

July 28 1998

Yukako Uchiyama

Midori Shibata  
Name: By: Natsumi Shibata (Minor), Legal Representative

July 28 1998

Yukako Uchiyama

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

# **ASSIGNMENT** (Continued from page 1)

## **LISTING OF ADDITIONAL INVENTORS**

INSERT  
NAME(S) OF  
INVENTOR(S)

(6)	(11)
(7)	(12)
(8)	(13)
(9)	(14)
(10)	(15)

## **SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED**

	<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESSES</u>
Name:	By: Raine Shibata (Minor), Legal Representative <u>Midori Shibata</u>	<u>July 28 1998</u>	<u>Yukiko Kichiyama</u>
4) Name:	<u>Hiromi Sano</u> Hiromi Sano	<u>July 19, 1998</u>	<u>Hiroshi Sugino</u>
Name:	_____	_____	_____
Name:	_____	_____	_____
Name:	_____	_____	_____
Name:	_____	_____	_____
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Name:	_____	_____	_____
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