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03-08-2002



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102006596

Attorney Docket No. 111384



To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. A. Name of conveying party(ies):
Takaaki KURAHASHI
Seiichi TSURUMOTO
Akiya SHICHUJO
Hiroshi ISHIDA

3.5.02

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

2. A. Name and address of receiving party(ies):
DENSO CORPORATION
1-1, SHOWA-CHO
KARIYA-CITY,
AICHI-PREF. 448-0029
JAPAN

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

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

B. Execution Date: _____

4. A. If this document is being filed together with a new application, the execution date of the application is: _____

B. Patent Application No.(s) 09/773,262

C. Patent No.(s) _____

Additional numbers attached? Yes No

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

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 1

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

B. Enclosed (Check No. previously submitted on 10/9/01)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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.

Date: March 5, 2002

James A. Oliff Registration No. 27,975
Thomas J. Pardini Registration No. 30,411

Total number of pages including cover sheet, attachments, and document: 7

10-18-2001
101875409

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

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

- 1. TAKAAI KURAHASHI
- 2. SEIICHI TSURUMOTO
- 3. AKIYA SHIKCHIYO
- 4. HIROSHI ISHIDA
- 5.
- 6.
- 7.
- 8.

10-9-01

OCT 09 2001
PATENT & TRADEMARK OFFICE

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

EXEC. DATE: January 30, 2001, January 26, 2001, January 28, 2001, January 11, 2001, respectively.

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

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
09/773,262	277107				

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
Tel: (703) 905-2000

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

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$0

5.5 ATTY DKT:

P 277107	U3-0052-TH
MATTER NO.	CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
UNDER ORDER NO	60388	2077107
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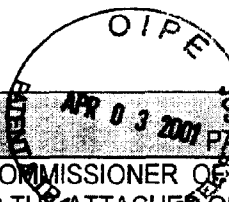
9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signature

Attorney: Kenneth M. Fagin Date: October 9, 2001
 Reg. No. 37,615 FAX: (703) 905-2500
 Atty/Sec: KMF/emg TEL: (703) 905-2066

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)



101757515

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

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

- 1. TAKAAI KURAHASHI
- 2. SEIICHI TSUBUMOTO
- 3. AKIYA SHICHIJYO
- 4. HIROSHI ISHIDA
- 5.
- 6.
- 7.
- 8.

4.3.01

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

EXEC. DATE: January 30, 2001, January 26, 2001, January 28, 2001, January 11, 2001, respectively.

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) 1/30/01, 1/26/01, 1/23/01, 1/11/01

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
09/773,262	277107				

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

Pillsbury Winthrop LLP
Intellectual Property Group
1100 New York Avenue, NW
Ninth Floor
Washington, DC 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:

P 277107 U3-0052-TH
MATTER NO. CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975
UNDER ORDER NO 60388 277107
dup. sheet not required CLIENT NO. MATTER NO.

Adjustment date: 04/19/2001 BABRAHA1
04/05/2001 BABRAHA1 00000033 09823747
03 FC:581 40.00 DP

9.

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet) RECEIVED JUN 20 2001

Attorney: Kenneth M. Fagin Date: April 3, 2001
Reg. No. 37,615
Atty/Sec: KMF/emg TEL: (202) 861-3540 FAX: (202) 822-0944

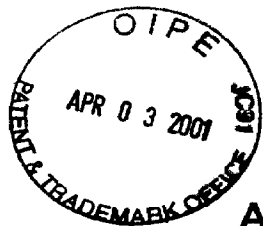
FILE WITH PTO RETURN RECEIPT (PAT-103A)

04/05/2001 BABRAHA1 00000033 09823747
03 FC:581 40.00 DP

04/19/2001 BABRAHA1 00000061 09773262
03 FC:581 40.00 DP

Please return signed/recorded to:

Fillsbury Madison & Sutro L.L.P.
Intellectual Property Group
Ninth Floor, East Tower
1100 New York Avenue, N.W.
Washington, D.C. 20005-3918



USA Patent Appln.
Sole or Joint

Atty. Dkt. 277107

For Inventions made outside USA
executed with or after application

U3-0052-TH

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) Takaaki KURAHASHI	(4) Hiroshi ISHIDA
(2) Seiichi TSURUMOTO	(5)
(3) Akiya SHICHIJYO	<input type="checkbox"/> 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

ALTERNATOR FOR VEHICLE

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 January 11, 23, 26 and 30
- (C) in U.S. Appln. No. 09 / 773,262 filed February 1, 2001

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) <u>Takaaki Kurahashi</u> Name: Takaaki Kurahashi	<u>January 30, 2001</u>	<u>Shigenobu Nakamura</u>
2) <u>Seiichi Tsurumoto</u> Name: Seiichi Tsurumoto	<u>January 26, 2001</u>	<u>Shigenobu Nakamura</u>
3) <u>Akiya Shichijyo</u> Name: Akiya Shichijyo	<u>January 23, 2001</u>	<u>Shigenobu Nakamura</u>
4) <u>Hiroshi Ishida</u> Name: Hiroshi Ishida	<u>January 11, 2001</u>	<u>Shigenobu Nakamura</u>
5) _____ Name: _____	_____	_____

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



DECEMBER 17, 2001

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

PILLSBURY WINTHROP LLP
KENNETH M. FAGIN
1600 TYSONS BLVD.
IP GROUP
MCLEAN, VA 22102



101875409A

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/09/2001

REEL/FRAME: 012238/0216
NUMBER OF PAGES: 3

BRIEF: RE-RECORD TO CORRECT A CONVEYING PARTY'S NAME, PREVIOUSLY RECORDED AT REEL 011908, FRAME 0472.

ASSIGNOR: *TAKAAKI*
KURAHASHI, ~~TAKAAT~~

DOC DATE: 01/30/2001

ASSIGNOR:
TSURUMOTO, SEIICHI

DOC DATE: 01/26/2001

ASSIGNOR:
~~SHIKHIJO~~ AKIYA
SHIHIJO

DOC DATE: 01/11/2001

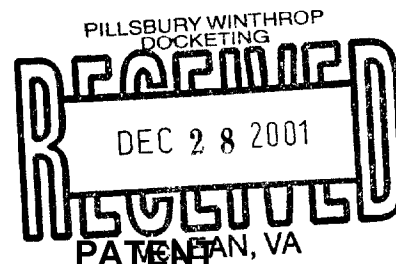
ASSIGNOR:
ISHIDA, HIROSHI

DOC DATE: 01/28/2001

ASSIGNEE:
DENSO CORPORATION
1-1, SHOWA-CHO, KARIYA-CITY
AICHI-PREF. 448-0029, JAPAN

SERIAL NUMBER: 09773262
PATENT NUMBER:

FILING DATE: 02/01/2001
ISSUE DATE:



REEL: 012635 FRAME: 0556

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
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