

06-23-2003

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Commissioner of Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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

1. Name of conveying party(ies):

Kimitaka SAITO

Yasuhide TANI

Atsuya OKAMOTO

Takeshi MIZOBUCHI

6-16-03

2. Name and address of receiving party(ies):

Name: DENSO CORPORATION

Internal Address:

Street Address: 1-1, Showa-cho, Kariya-city

City: Aichi-pref.

State/Country: Japan

Zip: 448-8661

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Assignment☐ Change of Name☐ OtherExecution Date: 1) June 6, 2003; 2), 3) and 4) June 4,
2003Additional name/s & address/es attached? ☒ Yes ☒ No

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:

1) June 6, 2003; 2), 3) and 4) June
4, 2003

10461457

A. Patent Application No(s).

(1)

(2)

(3)

B. Patent No(s).

(1)

(2)

(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: Larry S. Nixon

Internal Address:

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed☐ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

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9. Statements 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.

Larry S. Nixon

Name of Person Signing

Reg. No. 25,640

Larry S. Nixon

Signature

June 16, 2003

Date

Total number of pages including original cover sheet, attachments, and document: [2]

6/17/2003 LVNDIM: 00000044 10461457

PATENT
REEL: 014187 FRAME: 0685

747562

ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Kimitaka Saito
Yasuhide Tani
Atsuya Okamoto
Takeshi Mizobuchi

(Assignee) DENSO CORPORATION a corporation of JAPAN
 (Address) 1-1, SHOWA-CHO, KARIYA-CITY, AICHI-PREF., 448-8661 JAPAN

(Title) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as

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for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on _____ or has already filed U.S. application Serial No. _____, on _____.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date	<u>June 6, 2003</u>	Signature of inventor	<u>Kimitaka Saito</u>
Date	<u>June 4, 2003</u>	Signature of inventor	<u>Yasuhide Tani</u>
Date	<u>June 4, 2003</u>	Signature of inventor	<u>Atsuya Okamoto</u>
Date	<u>June 4, 2003</u>	Signature of inventor	<u>Takeshi Mizobuchi</u>

Witnessed by: Hiroaki Nagatomo
 Witnessed by: Masahiro Ishitani
 Witnessed by: Shigeo Nomura
 Witnessed by: Kazutoshi Koie

Date June 6, 2003
 Date June 4, 2003
 Date June 4, 2003
 Date June 4, 2003