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Our Ref.: MNL-2635-1158

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

## 1. Name of conveying party(ies):

- 1 Takeyasu KOMATSU  
2 Yoshiyuki HAMANAKA  
3 Tsuneo MAEBARA  
4 Ryotaro MIURA

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

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Assignment ☐ Change of Name  
☐ Other

Execution Date: All on April 9, 2012

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

## 1) Name: DENSO CORPORATION

Street Address: 1-1, Showa-cho

City: Kariya-city, Aichi-pref.

State/Country: Japan

Zip: 448-8661

## 2) Name

Street Address:

City:

State/Country:

Zip:

Additional name/s & address/es attached? ☐ Yes ☒ No4. Application number(s) or patent number(s): ☐ This assignment is being filed together with a new application.

## A. Patent Application No(s).

(1) 13/430,804

(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: Michelle N. Lester

Internal Address:

Street Address: Nixon &amp; Vanderhye P.C.

901 North Glebe Road

11th Floor

City: Arlington State: VA Zip: 22203

## 6. Total number of applications &amp; 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.

Michelle N. Lester

Name of Person Signing

Reg. No. 32,331

Signature

May 3, 2012

Date

Total number of pages including original cover sheet, attachments, and document: [3]

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT

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# ASSIGNMENT OF PATENT APPLICATION

(Inventors)      1) Takeyasu KOMATSU  
                    2) Yoshiyuki HAMANAKA  
                    3) Tsuneo MAEBARA  
                    4) Ryotaro MIURA  
                    5)  
                    6)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee)      DENSO CORPORATION, a corporation of Japan having a place of business at  
(Address)      1-1 Showa-cho, Kariya-city, Aichi-pref. 448-8661 Japan

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

DRIVE CIRCUIT FOR SWITCHING ELEMENT

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 April 9, 2012 or has already filed in U.S. appln. Serial No. 13/430,804, filed on March 27, 2012.  
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 April 9, 2012 Signature of inventor Takeyasu Komatsu  
Takeyasu Komatsu

Date April 9, 2012 Signature of inventor Yoshiyuki Hamanaka  
Yoshiyuki Hamanaka

Date April 9, 2012 Signature of inventor Tsuneo Maebara  
Tsuneo Maebara

Date April 9, 2012 Signature of inventor Ryotaro Miura  
Ryotaro Miura

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_

Date \_\_\_\_\_ Signature of inventor \_\_\_\_\_

Witnessed by: Hosuke Asako Date April 9, 2012

Witnessed by: Isumichi Takata Date April 9, 2012

Witnessed by: Yusuke Murata Date April 9, 2012

Witnessed by: Shun Miyawaki Date April 9, 2012