

*Handwritten initials and marks*

12-26-2007



11/922135

P05 Rec'd PCT 13 DEC 2007  
SHEET

Our Ref.: LSN-2018-1857

103470828

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 Hisayo YOSHIKAWA  
 2 Shigeru KAMIO  
 3 Masahiro ITO  
 4- Kenji KASASHIMA

Additional name/s of conveying party/ies attached?

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

Execution Date: October 1, 2007, October 1, 2007, October 4, 2007 and October 4, 2007, respectively.

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 TOYOTA JIDOSHA KABUSHIKI KAISHA  
 Street Address: 1, Toyota-cho  
 City: Toyota-city, Aichi-pref.  
 State: Japan Zip: 471-8571

Additional name/s & address/es attached?  Yes  No

12-13-07

11/922135

4. Application number(s) or patent number(s):  This assignment is being filed together with a new application.

A. Patent Application No(s).  
 (1) National Phase of PCT/JP2007/051120  
 (2)  
 (3)

B. Patent No(s).  
 (1)  
 (2)  
 (3)

Additional numbers attached  Yes  No

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

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

Name: Larry S. Nixon  
 Internal Address: 40.00 OP  
 Street Address: Nixon & Vanderhye P.C.  
901 North Glebe Road  
11th Floor  
 City: Arlington State: VA Zip: 22203

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.**

DO NOT USE THIS SPACE

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

December 13, 2007  
 Date

Total number of pages including original cover sheet, attachments, and document: [5]

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

COPY

Case No. : \_\_\_\_\_  
99726-UST-AK/ns

**ASSIGNMENT OF U.S. PATENT APPLICATION**

(Inventors) Hisayo Yoshikawa  
Shigeru Kamio  
Masahiro Ito  
Kenji Kasashima

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

(Address) 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(Assignee) TOYOTA JIDOSHA KABUSHIKI KAISHA a corporation of Japan

(Address) 1, Toyota-cho, Toyota-city, Aichi-pref., 471-8571 Japan

(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

(Title) CONTROL APPARATUS FOR VEHICLE

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 \_\_\_\_\_ Signature of inventor Hisayo Yoshikawa

Date \_\_\_\_\_ Signature of inventor Shigeru Kamio

Date October 4, 2007 Signature of inventor Masahiro Ito  
Masahiro Ito

Date October 4, 2007 Signature of inventor Kenji Kasashima  
Kenji Kasashima

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Date October 4, 2007

Witnessed by: Joshie Jakaoka

Date October 4, 2007

Witnessed by: Masahiro Wanike

COPY

Case No. : \_\_\_\_\_

99726-UST-AK/ns

**ASSIGNMENT OF U.S. PATENT APPLICATION**

(Inventors) Hisayo Yoshikawa  
Shigeru Kamio  
Masahiro Ito  
Kenji Kasashima

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

(Address) 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(Assignee) TOYOTA JIDOSHA KABUSHIKI KAISHA a corporation of Japan

(Address) 1, Toyota-cho, Toyota-city, Aichi-pref., 471-8571 Japan

(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

(Title) CONTROL APPARATUS FOR VEHICLE

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 October 1, 2007 Signature of inventor Hisayo Yoshikawa

Hisayo Yoshikawa

Date October 1, 2007 Signature of inventor Shigeru Kamio

Shigeru Kamio

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

Masahiro Ito

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

Kenji Kasashima

264637

Date October 1, 2007

Witnessed by: Yasuhiko Kawakatsu

Date October 1, 2007

Witnessed by: Haruyuki Ureshihata

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_