

RECO

04/29/2011

Our Ref.: 2018-2457



4-27-11

103624055

Documents or copy thereof.

To the Director of the U.S. Patent and Trademark

1. Name of conveying party(ies):

1 Satoshi MASUDA 5 Kenji SENDA
 2 Rihito KANEKO 6 Norihito HANAI
 3 Satoshi WATANABE 7 Yasuhiro YAMASAKO
 4 Hiroto TANAKA

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

3. Nature of conveyance:

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

Execution Date: January 22, 2010, January 28, 2010,
 January 28, 2010, January 29, 2010,
 January 29, 2010, January 29, 2010 and
 February 5, 2010

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/Country: Japan Zip: 471-8571

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) 12/672,731
 (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 & Vanderhye P.C.
 901 North Glebe Road
 11th Floor

City: Arlington State: VA Zip: 22203

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.

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.

Michelle N. Lester

Name of Person Signing
 Reg. No. 32,331

Signature

April 27, 2011

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

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PATENT
 REEL: 026243 FRAME: 0638

1794257

ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Satoshi Masuda
Rihito Kaneko
Satoshi Watanabe
Hiroto Tanaka
Kenji Senda
Norihito Hanai
Yasuhiro Yamasako

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

(Title) KNOCK DETERMINING DEVICE
(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
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 January 22, 2010 Signature of inventor

Satoshi Masuda
Satoshi Masuda

Date _____ Signature of inventor

Rihito Kaneko

Date _____ Signature of inventor

Satoshi Watanabe

PATENT

REEL: 026243 FRAME: 0639

Case No. : _____
112276-UST-HM/nk

Date _____	Signature of inventor	_____
		Hiroto Tanaka
Date _____	Signature of inventor	_____
		Kenji Senda
Date _____	Signature of inventor	_____
		Norihito Hanai
Date _____	Signature of inventor	_____
		Yasuhiro Yamasako

Date	<u>January 22, 2010</u>	Witnessed by:	<u>Tomohiro Takizawa</u>
Date	_____	Witnessed by:	_____
Date	_____	Witnessed by:	_____
Date	_____	Witnessed by:	_____
Date	_____	Witnessed by:	_____
Date	_____	Witnessed by:	_____
Date	_____	Witnessed by:	_____

ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Satoshi Masuda
Rihito Kaneko
Satoshi Watanabe
Hiroto Tanaka
Kenji Senda
Norihito Hanai
Yasuhiro Yamasako

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(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) KNOCK DETERMINING DEVICE
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 _____.

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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.

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

Date _____ Signature of inventor

Date January 28, 2010 Signature of inventor

Date January 28, 2010 Signature of inventor

Satoshi Masuda

Rihito Kaneko

Rihito Kaneko

Satoshi Watanabe

Satoshi Watanabe

PATENT

REEL: 026243 FRAME: 0641

Date	<u>January, 29, 2010</u>	Signature of inventor	<u>Hiroto Tanaka</u> Hiroto Tanaka
Date	<u>January, 29, 2010</u>	Signature of inventor	<u>Kenji Senda</u> Kenji Senda
Date	<u>January, 29, 2010</u>	Signature of inventor	<u>Norihito Hanai</u> Norihito Hanai
Date	<u>February 5, 2010</u>	Signature of inventor	<u>Yasuhiro ^{2.5} Yamasako</u> Yasuhiro Yamasako

Date	_____	Witnessed by:	_____
Date	<u>January, 28, 2010</u>	Witnessed by:	<u>Hiroshi Watanabe</u>
Date	<u>January, 28, 2010</u>	Witnessed by:	<u>Hiroshi Watanabe</u>
Date	<u>January, 29, 2010</u>	Witnessed by:	<u>Hiroshi Watanabe</u>
Date	<u>January, 29, 2010</u>	Witnessed by:	<u>Kinaki Watanabe</u>
Date	<u>January, 29, 2010</u>	Witnessed by:	<u>Kinaki Watanabe</u>
Date	<u>February, 5, 2010</u>	Witnessed by:	<u>Kentaro Watanabe</u>