

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Takuya Matsumoto</td> <td>09/14/2012</td> </tr> <tr> <td>Masahiko Shimada</td> <td>09/14/2012</td> </tr> <tr> <td>Kazunaga Kasai</td> <td>09/14/2012</td> </tr> <tr> <td>Toru Muramatsu</td> <td>09/14/2012</td> </tr> <tr> <td>Masahito Kobayashi</td> <td>09/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Takuya Matsumoto	09/14/2012	Masahiko Shimada	09/14/2012	Kazunaga Kasai	09/14/2012	Toru Muramatsu	09/14/2012	Masahito Kobayashi	09/14/2012
Name	Execution Date												
Takuya Matsumoto	09/14/2012												
Masahiko Shimada	09/14/2012												
Kazunaga Kasai	09/14/2012												
Toru Muramatsu	09/14/2012												
Masahito Kobayashi	09/14/2012												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>HONDA MOTOR CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Minami-Aoyama 2-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Minato-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>107-8556</td> </tr> </table>		Name:	HONDA MOTOR CO., LTD.	Street Address:	1-1, Minami-Aoyama 2-chome	Internal Address:	Minato-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	107-8556
Name:	HONDA MOTOR CO., LTD.												
Street Address:	1-1, Minami-Aoyama 2-chome												
Internal Address:	Minato-ku												
City:	Tokyo												
State/Country:	JAPAN												
Postal Code:	107-8556												
<table border="1"> <tr> <td>Name:</td> <td>TOYO DENSO CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>10-4, Shimbashi 2-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Minato-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>105-0004</td> </tr> </table>		Name:	TOYO DENSO CO., LTD.	Street Address:	10-4, Shimbashi 2-chome	Internal Address:	Minato-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	105-0004
Name:	TOYO DENSO CO., LTD.												
Street Address:	10-4, Shimbashi 2-chome												
Internal Address:	Minato-ku												
City:	Tokyo												
State/Country:	JAPAN												
Postal Code:	105-0004												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13636832</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13636832								
Property Type	Number												
Application Number:	13636832												
CORRESPONDENCE DATA													
Fax Number:	2165669711												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	2165669700												

CH \$40.00 13636832

Email: almasy@rankinhill.com
Correspondent Name: Rankin Hill and Clark LLP
Address Line 1: 38210 Glenn Avenue
Address Line 4: Willoughby, OHIO 44094

ATTORNEY DOCKET NUMBER:

SHG-36190

NAME OF SUBMITTER:

David E. Spaw

Total Attachments: 6

source=0363_001#page1.tif

source=0363_001#page2.tif

source=0363_001#page3.tif

source=0363_001#page4.tif

source=0363_001#page5.tif

source=0363_001#page6.tif

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

SWITCH UNIT

that are the subject of an application for a U.S. Patent, (Application No. 13/636832,
filed 09/24/2012), which application is further identified as Rankin, Hill, Porter
& Clark LLP Docket No. SHG-36190.

WHEREAS, (1) HONDA MOTOR CO., LTD.; and (2) TOYO DENSO CO., LTD., a
corporation of Japan, and having a place of business at (1) 1-1, Minami-Aoyama 2-chome,
Minato-ku, Tokyo, 107-8556 Japan.; and (2) 10-4, Shimbashi 2-chome, Minato-ku, Tokyo,
105-0004 Japan hereinafter referred to as "assignee", is desirous of acquiring all right,
title, and interest throughout the world in, to, and under said improvements and inventions
and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and
sufficiency of which are hereby acknowledged, all right, title, and interest, in the United
States and throughout the world, in, to and under said improvements and inventions and
all patents, patent applications, patent rights, and inventor's certificates thereof, therefor,
and therein, including without limitation said application for patent in the United States, all
divisions and continuations thereof, all patents which may be granted thereon, all
reissues and extensions thereof, all right to sue for past infringement thereunder, all
patents which may be granted for said improvements and inventions by states or nations
other than the United States, or by other authority, entity, or organization, and all
applications therefor, have been and are hereby sold, assigned, transferred, and
delivered unto assignee, its successors and assigns; and it is covenanted and agreed by
the undersigned, and for executors, administrators, and legal representatives of the
undersigned, that at assignee's request any and all applications, affidavits, assignments,
and other instruments will be made, executed, and delivered as may be necessary, or
desirable to secure for or vest in assignee, its successors or assigns, any improvement,
inventions, right, title, interest, application, patent, patent right or other right or property
covered by this assignment, and the United States Commissioner of Patents and
Trademarks is hereby requested and authorized to issue any and all United States
patents granted on any of said applications to assignee as owner of the entire right, title,
and interest in, to, and under the same, and appropriately empowered officials of foreign
countries are hereby authorized to issue any letters patent granted on any of said
applications to assignee as owner of the entire right, title and interest in, to, and under the
same.

The undersigned hereby grants the firm of Rankin, Hill, Porter & Clark LLP 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 and Trademark Office for
recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

OSP4192805

- (1) Inventor Name (sole or joint): **Takuya MATSUMOTO**

Signature: Takuya Matsumoto

Today's Date : September 14, 2012

Witness: _____

Witness: _____

- (2) Inventor Name (joint): **Masahiko SHIMADA**

Signature: Masahiko Shimada

Today's Date : September 14, 2012

Witness: _____

Witness: _____

- (3) Inventor Name (joint): **Kazunaga KASAI**

Signature: Kazunaga Kasai

Today's Date : September 14, 2012

Witness: _____

Witness: _____

- (4) Inventor Name (joint): **Toru MURAMATSU**

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____

(5) Inventor Name (joint): Masahito KOBAYASHI

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

SWITCH UNIT

that are the subject of an application for a U.S. Patent, (Application No. 13/636832, filed 09/24/2012), which application is further identified as Rankin, Hill, Porter & Clark LLP Docket No. SHG-36190.

WHEREAS, (1) HONDA MOTOR CO., LTD.: and (2) TOYO DENSO CO., LTD., a corporation of Japan, and having a place of business at (1) 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan.; and (2) 10-4, Shimbashi 2-chome, Minato-ku, Tokyo, 105-0004 Japan hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Rankin, Hill, Porter & Clark LLP 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 and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

- (1) Inventor Name (sole or joint): **Takuya MATSUMOTO**

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____

- (2) Inventor Name (joint): **Masahiko SHIMADA**

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____

- (3) Inventor Name (joint): **Kazunaga KASAI**

Signature: _____

Today's Date : _____

Witness: _____

Witness: _____

- (4) Inventor Name (joint): **Toru MURAMATSU**

Signature: Toru Muramatsu

Today's Date : September 14, 2012

Witness: _____

Witness: _____

(5) Inventor Name (joint): **Masahito KOBAYASHI**

Signature: Masahito Kobayashi

Today's Date : September 14, 2012

Witness: _____

Witness: _____