

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Noriaki Okada	09/13/2011
Arinobu Kimura	09/18/2011
Hiroki Okada	09/18/2011
Hiroko Murakami	09/18/2011

RECEIVING PARTY DATA

Name:	DENSO CORPORATION
Street Address:	1-1, Showa-cho
City:	Kariya-city, Aichi-pref.
State/Country:	JAPAN
Postal Code:	448-8661

Name:	Toyota Jidosha Kabushiki Kaisha
Street Address:	1, Toyota-cho
City:	Toyota-city, Aichi-pref.
State/Country:	JAPAN
Postal Code:	471-8571

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13199897

CORRESPONDENCE DATA

Fax Number: (248)641-0270
 Phone: 248-641-1600
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 Correspondent Name: Harness, Dickey & Pierce, P.L.C.

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**PATENT
 REEL: 027050 FRAME: 0323**

Address Line 1: P.O. Box 828
Address Line 4: Bloomfield Hills, MICHIGAN 48303

ATTORNEY DOCKET NUMBER:	4041J-001851/US
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NAME OF SUBMITTER:	H. Keith Miller
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Total Attachments: 2 source=Assignment 4041J-001851#page1.tif source=Assignment 4041J-001851#page2.tif
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ASSIGNMENT BY INVENTORS

Sole or Joint

WHEREAS, the undersigned, hereinafter referred to as Assignor(s), have invented

IN-VEHICLE APPARATUS

for which the undersigned executed an application for Letters Patent of the United States of America:

- (A) even date herewith
- (B) on _____
- (C) in U.S. Appln. No. 13/199,897 filed 09/12/2011

AND WHEREAS,

DENSO CORPORATION, 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

TOYOTA JIDOSHA KABUSHIKI KAISHA, 1, Toyota-cho, Toyota-city, Aichi-pref., 471-8571 Japan

hereinafter referred to as Assignee, is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, Assignors by these presents do sell, assign and transfer unto Assignee, its successors in interest, the full and exclusive right in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States and the Paris Convention, to the said invention as described in the specification executed by Assignors of even date preparatory to filing a United States application for patent therefor, said invention and all United States applications for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignors had this assignment and sale not been made; and Assignors hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of United States application for patent and all foreign countries on, for litigation regarding, or for the purpose of protecting title to the said invention, the United States application for patent, or Letters Patent therefor for the benefit of Assignee without further or other compensation than that above set forth; and Assignors hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee(s).

Noriaki Okada
Inventor 1: **Noriaki Okada**

September 13, 2011
Date

Toshiro Kimura
Witness

Inventor 2: **Arinobu Kimura**

Date

Witness

Inventor 3: **Hiroki Okada**

Date

Witness

Inventor 4: **Hiroko Murakami**

Date

Witness

ASSIGNMENT BY INVENTORS

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IN-VEHICLE APPARATUS

for which the undersigned executed an application for Letters Patent of the United States of America:

- (A) x even date herewith
- (B) on
- (C) x in U.S. Appln. No. 13/199,897 filed 09/12/2011

AND WHEREAS,

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Inventor 1: **Noriaki Okada**

Date

Witness

Arinobu Kimura

September 18, 2011

Jun Hioki

Inventor 2: **Arinobu Kimura**

Date

Witness

Hiroki Okada

September 18, 2011

Jun Hioki

Inventor 3: **Hiroki Okada**

Date

Witness

Hiroko Murakami

September 18, 2011

Jun Hioki

Inventor 4: **Hiroko Murakami**

Date

Witness

PATENT

RECORDED: 10/12/2011

REEL: 027050 FRAME: 0326