

PATENT ASSIGNMENT

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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>Tsunenobu HORI</td> <td>09/25/2012</td> </tr> <tr> <td>Kaoru KUZUOKA</td> <td>09/25/2012</td> </tr> <tr> <td>Chiaki OGAWA</td> <td>09/27/2012</td> </tr> <tr> <td>Motoki SATOU</td> <td>09/28/2012</td> </tr> <tr> <td>Katsunori YAMADA</td> <td>09/25/2012</td> </tr> <tr> <td>Takao KOBAYASHI</td> <td>09/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tsunenobu HORI	09/25/2012	Kaoru KUZUOKA	09/25/2012	Chiaki OGAWA	09/27/2012	Motoki SATOU	09/28/2012	Katsunori YAMADA	09/25/2012	Takao KOBAYASHI	09/25/2012
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PROPERTY NUMBERS Total: 1															
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CORRESPONDENCE DATA															
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OP \$40.00 13639327

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NAME OF SUBMITTER:	Michelle N. Lester
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Total Attachments: 4 source=EXECUTED_ASSIGNMENT#page1.tif source=EXECUTED_ASSIGNMENT#page2.tif source=EXECUTED_ASSIGNMENT#page3.tif source=EXECUTED_ASSIGNMENT#page4.tif
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ASSIGNMENT OF PATENT APPLICATION

(Inventors)	1) Tsunenobu HORI
	2) Kaoru KUZUOKA
	3) Chiaki OGAWA
	4) Motoki SATOU
	5) Katsunori YAMADA
	6) Takao KOBAYASHI

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

(Assignee)	2) KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO, 41-1 Yokomichi, Nagakute-shi,
(Address)	Aichi-ken 480-1192 Japan

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

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 September 25, 27 and 28, 2012 or has already filed in

U.S. appln. Serial No. , filed 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 & VANDERHUYE 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 & Vanderhuy 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 September 25, 2012 Signature of inventor

Tsunenobu Hori
Tsunenobu Hori

Date September 25, 2012 Signature of inventor

Kaoru Kuzuoka
Kaoru Kuzuoka

Date September 27, 2012 Signature of inventor

Chiaki Ogawa
Chiaki Ogawa

Date September 28, 2012 Signature of inventor

Motoki Satou
Motoki Satou

Witnessed by:

Taiji Koyama

Date

September 25, 2012

Witnessed by:

Taiji Koyama

Date

September 25, 2012

Witnessed by:

Taiji Koyama

Date

September 27, 2012

Witnessed by:

Taiji Koyama

Date

September 28, 2012

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Date September 25, 2012 Signature of inventor

Katsunori Yamada
Katsunori Yamada

Date September 25, 2012 Signature of inventor

Takao Kobayashi
Takao Kobayashi

Witnessed by: Tomoeaki Morioka

Date September 25, 2012

Witnessed by: Nariko Nakano

Date September 25, 2012