	1 PE 0 5 2005 E ECORDETION FO	ORM COVER SHEET	U.S. Department of Commerce Patent and Trademark Office
4101	BADEMARK SI	04-08-2005	Our Ref.: 2018-829
Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450		102975825	
To the Honorable Commissioner of Patents	s and Trademarks: Plea		
 Name of conveying party(ies): Jun YAMADA Keiji WAKAHARA Yoshinori MAEGAWA Additional name/s of conveying party/ies a 	.ttached?	2. Name and address of reco Name: <u>DENSO CORP</u> Internal Address: Street Address: 1-1, SI	
3. Nature of conveyance:	e of Name ne spelling of the	City: <u>Kariya-city, Aichi-</u> State/Country: <u>Japan</u> Zip: <u>448-8661</u>	pref.
· · · · · · · · · · · · · · · · · · ·	003; December 26, 2004 respectively	Additional name/s & add	ress/es attached? 🗌 Yes 🛛 No
 4. Application number(s) or patent numbe If this document is being filed together with a A. Patent Application No(s). (1) 10/757,425 (2) (3) 	new application, the executio	B. Patent No(s). (1) (2) (3)	
	Additional numbers at		
 5. Name and address of party to whom concerning document should be mailed Name: Larry S. Nixe Internal Address:			\$ 40.00 (See attached cover harged to deposit account #14-1140
Street Address: Nixon & Vanderhye P.0 1100 North Glebe Road 8 th Floor City: Arlington State: VA Z		deficiency in the fee(s) fi should have been filed he	by authorized to charge any led, or asserted to be filed, or which erewith (or with any paper thereafter y this firm) to our Account No.
	DO NOT US	E THIS SPACE	
 9. Statements and signature. To the best of my knowledge and belief of the original document. Larry S. Nixon Name of Person Signing 	-4	S. Airon	ny attached copy is a true copy April 5, 2005 Date
Reg. No. 25,640 Total number of	of pages including origi	nal cover sheet, attachments,	, and document: [8]

i.

#884636 v1 - 2018-829.2nd req/cor/not/recor PATENT REEL: 016430 FRAME: 0063

01 - 2004 Patent and Trademark Office Our Ref.: 2018-82 2849216 record the attached original documents or copy thereof. . Name and address of receiving party(ies):
record the attached original documents or copy thereof.
Name and address of receiving party(ies):
Name: DENSO CORPORATION Internal Address: Street Address: Street Address: 1-1, Showa-cho, Kariya-city
City: <u>Aichi-pref.</u> State/Country: <u>Japan</u> Zip: <u>448-8661</u>
Additional name/s & address/es attached? 🗌 Yes 🛛 No
ate of the application is: B. Patent No(s). (1) (2) (3) ched \square Yes \boxtimes No
 Total number of applications & patents involved: 1 Total fee (37 CFR 3.41) \$ 40.00 Enclosed Authorized to be charged to deposit account #14-1140
3. The Commissioner is hereby authorized to charge any <u>deficiency</u> 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.
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on is true and correct and any attached copy is a true copy <u>September 27, 2004</u> Date al cover sheet, attachments, and document: [5]

PATENT Doci REEL: 016430 FRAME: 0064

ASSIGNMENT	OF U	S. PATENT	APPLICATION
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	A CONTRACT OF OUS PATENT APPLICATION
	Jun Yamada
•	Keiji Wakahara
(Inventors)	Yoshinori Maegawa
	In consideration of the sum of one dollar (\$1.00) and other good and valuable
	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
	(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the investign and all
(Title)	MISFIRE DETECTOR FOR AN INTERNAL COMBUSTION ENGINE
	for which the undersigned has (have) executed on even date berewith 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

jes 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	Recontes 20 2003	Signature of inventor	June Spermaile
Date	<u> 1 20 mili - 20 2003 -</u>	Signature of inventor	Jun Yamada <u>Reiji Wakahara</u> Keiji Wakahara
Date	Jumin 26 2.4	Signature of inventor	Yoshinori Maegawa
Date	Sugar De 2012	Witnessed by:	Ferril 1- France
Date	<u> </u>	Witnessed by	The here House The
Date	January 6 2004	Witnessed by:	Tenni yani
T Y Innung 4 2004	:	- 1 -	

264637 PATENT REEL: 016430 FRAME: 0065

Form PTO-1595	6-2004 U.S. Department of Commer
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	47338 Our Ref.: 2018-
Mail Stop Assignment Recordation Vices	47336
Commissioner of Patents P.O. Box 1450	
Alexandria, VA 22313-1450	
	Please record the attached original documents or copy thereof.
1. Name of conveying partyles).	2. Name and address of receiving party(ies):
Jun YAMADA Keiji WAKAHARA (APR 0 5 2005)	Name: DENSO CORPORATION
Keiji WAKAHARA APR U 5 2005 S Ysohinori MAEGAWA	
I Sommor MAEGAWA	Street Address: 1-1, Showa-cho, Kariya-city
Additional name/s of conveying party attached?	1 4 2 S T
3. Nature of conveyance:	Ciry: Aichi-pref.
Assignment I Merger	State Country: <u>Japan</u>
Other	Zip. 443-300 (
Execution Date: December 26, 2003. December 26, 2003: January 6, 2004	Additional name/s & address/es attached? 🔲 Yes - 🔀 No —
 Application number(s) or patent number(s): 	
A. Patent Application No(s).	B. Patent No(s).
(1) (2) (3)	$\begin{array}{c} 2003: \text{ January 6, 2004} \\ \hline B. Patent No(s). \\ (1) \\ (2) \\ (3) \end{array} / 0 / 757425 \end{array}$
 (1) (2) (3) Additional numbers 	$ \begin{array}{c} 2003: January 6, 2004 \\ (1) \\ (2) \\ (3) \\ s attached Yes No \end{array} $
 (1) (2) (3) Additional numbers Name and address of party to whom correspondence 	$\begin{array}{c} 2003: \text{ January 6, 2004} \\ \hline B. Patent No(s). \\ (1) \\ (2) \\ (3) \end{array} / 0 / 757425 \end{array}$
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(1) (2) (3) Name and address of party to whom correspondence	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
(1) (2) (3) . Name and address of party to whom correspondence concerning document should be mailed: Name: Larry S. Nixon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
 (1) (2) (3) Additional numbers Name and address of party to whom correspondence concerning document should be mailed: 	$ \begin{array}{c cccccccccccccccccccccccccccccccccc$
(1) (2) (3) Additional numbers Name and address of party to whom correspondence concerning document should be mailed: Name: Larry S. Nixon Internal Address: Street Address: Nixon & Vanderhye P.C.	$\frac{2003: \text{ January 6, 2004}}{2003: \text{ January 6, 2004}}$ B. Patent No(s). (1) (2) (3) (3) (3) (3) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
(1) (2) (3) Additional numbers Name and address of party to whom correspondence concerning document should be mailed: Name: Larry S. Nixon Internal Address: Street Address: Nixon & Vanderhye P.C. <u>1100 North Glebe Road</u>	$\frac{2003: \text{ January 6, 2004}}{2003: \text{ January 6, 2004}}$ B. Patent No(s). (1) (2) (3) (3) (3) (3) (4) (5) (5) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
(1) (2) (3) Additional numbers Name and address of party to whom correspondence concerning document should be mailed: Name: Larry S. Nixon Internal Address: Street Address: Nixon & Vanderhye P.C. <u>1100 North Glebe Road</u> <u>8th Floor</u>	$\frac{2003: \text{ January 6, 2004}}{2003: \text{ January 6, 2004}}$ B. Patent No(s). (1) (2) (3) (3) (3) (3) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
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(1) (2) (3) Additional numbers Name and address of party to whom correspondence concerning document should be mailed: Name: Larry S. Nixon Internal Address: Larry S. Nixon Internal Address: Street Address: Nixon & Vanderhye P.C. <u>1100 North Glebe Road</u> <u>8th Floor</u> City: <u>Arlington</u> State: VA Zip: <u>22201</u>	$\frac{2003: \text{ January 6, 2004}}{2003: \text{ January 6, 2004}}$ B. Patent No(s). (1) (2) (3) s attached Yes No 6. Total number of applications & patents involved: 1 7. Total fee (37 CFR 3.41) S 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.
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(1) (2) (3) Additional numbers Name and address of party to whom correspondence concerning document should be mailed: Name: Larry S. Nixon Internal Address: Street Address: Nixon & Vanderhye P.C. <u>1100 North Glebe Road</u> <u>8th Floor</u> City: <u>Arlington</u> State: VA Zip: 22201 DO NOT US Statements and signature. To the best of my knowledge and belief, the foregoing inform of the original document. Larry S. Nixon	2003: January 6, 2004 B. Patent No(s). (1) (2) 10/757425 (3) s attached ☐ Yes ⊠ No 6. Total number of applications & patents involved: 1 7. Total fee (37 CFR 3.41) S 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. SE THIS SPACE
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PATENT REEL: 016430 FRAME: 0066

RECORDED: 09/27/2004

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