



07/22/2011



103629507

Our Ref.: 2635-10

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

1. Name of conveying party(ies): 7/20/11
 1 Tomoo KAWASE
 2 Koji SUGIURA

Additional name/s of conveying party/ies attached?

3. Nature of conveyance:
 Assignment Merger
 Security Assignment Change of Name
 Other

Execution Date: both on July 5, 2011

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
 Street Address:
 City:
 State/Country: Zip:
 Additional name/s & address/es attached? Yes No

4. Application number(s) or patent number(s): This assignment is being filed together with a new application.
 A. Patent Application No(s):
 (1) 13/158,525
 (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 [Signature] July 20, 2011
 Name of Person Signing Signature Date
 Reg. No. 32,331

Total number of pages including **original** cover sheet, attachments, and document: [3]

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

07/21/2011 AWONDAF1 00000058 13158525
05 FC:8021 40.00 OF

ASSIGNMENT OF PATENT APPLICATION

(Inventors) 1) Tomoo KAWASE _____
 2) Koji SUGIURA _____
 3) _____
 4) _____
 5) _____
 6) _____

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

(Other Countries) (hereinafter designated as the Assignee) the undersigned's entire right, title and
 (Title) interest for the United States, its territories, dependencies and possessions, and for
 the country of

(Other Countries) in the invention, and all application for patent and any Letters Patent which may be
 (Title) granted therefore, known as
 ELECTRICAL HEATING CATALYZER HAVING HONEYCOMB STRUCTURE

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 July 5, 2011 or has already filed in U.S. appln. Serial No. 13/158,525, filed on June 13, 2011.

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 July 5, 2011 Signature of inventor *Tomoo Kawase*
Tomoo Kawase

Date July 5, 2011 Signature of inventor *Koji Sugiura*
Koji Sugiura

Date _____ Signature of inventor _____

Date _____ Signature of inventor _____

Date _____ Signature of inventor _____

Date _____ Signature of inventor _____

Witnessed by: *Mikio Ishihara* Date *M.I. July 5, 2011*
Mikio Ishihara Date *July 5, 2011*

Witnessed by: *Hironasa Aoki* Date *July 5, 2011*

Witnessed by: _____ Date _____

Witnessed by: _____ Date _____