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U.S. Department of COMMERCE
United States Patent and Trademark Office



103619544

HDP Docket No. 4041J-001584/US/NP
Express Mail Label No. EM 183 870 901 US

To the Director of the U.S. Patents and Trademark Office. Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Toshihide Ninagawa December 21, 2010
Tatsuo Ozaki December 21, 2010
Takahide Oohara December 24, 2010
Noriyuki Miyazaki December 21, 2010
Mitsuyoshi Saito December 21, 2010
U Ou December 21, 2010
Norio Yoshida January 19, 2011
Tetsuya Sakakibara January 18, 2011
Kazuhiro Mitsukawa January 25, 2011

Additional name of conveying party(ies) attached? ☐ Yes ☒ No



2. Name and address of receiving party(ies)

Name: DENSO CORPORATION

Internal Address: _____

Street Address 1-1, Showa-cho

City: Kariya-shi, Aichi-ken

State: _____

Country: Japan Zip: 448-8661

Additional Name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

4. Application number(s) or patent number(s):

A. Patent Application No.(s)
12/515,392

☐ This document is being filed together with a new application

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: H. Keith Miller

Internal Address: Harness, Dickey & Pierce, P.L.C.

Street Address: P.O. Box 828

City: Bloomfield Hills

State: MI Zip: 48303

Phone Number: 248-641-1600

Fax Number: 248-641-0270

Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 08-0750

Authorized User Name _____

9. Signature :

Signature

Michael J. Schmidt

March 4, 2011

Date

Total number of pages including cover sheet, attachments, and documents ☐

Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to

PATENT
REEL: 025920 FRAME: 0552

ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented.

HEAT EXCHANGER

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration);
- (b) ☐ executed on _____, _____, _____; or
- (c) ☒ filed on May 18, 2009, and assigned Serial No. 12/515,392 or PCT International Application No. _____; and

WHEREAS, DENSO CORPORATION, 1-1, Showa-cho, Kariya-shi, Aichi-ken 448-8661 JAPAN, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.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 U S Patent and Trademark Office for recordation of this document

ASSIGNMENT

Toshihide Ninagawa
Toshihide Ninagawa

December 21, 2010
Dated

Tatsuo Ozaki
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December 21, 2010
Dated

Takahide Oohara
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December 24, 2010
Dated

Noriyuki Miyazaki
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Mitsuyoshi Saito
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December 21, 2010
Dated

U Ou
U Ou

December 21, 2010
Dated

Tomoyuki Ishizuka
Witness

Manabu Hasegawa
Witness

Shota Akagi
Witness

Shunta Mabuchi
Witness

Hiroyuki Okumura
Witness

Atsushi Yamashita
Witness

Kiyoshi Kageyama
Witness

Kumiko Matukubo
Kiyoshi Kageyama
Witness
K.M. December 21, 2010

Norimasa Baba
Witness

Hitoshi Hanada
Witness

Shinta Mabuchi
Witness

Hayato Sogito
Witness

ASSIGNMENT

Norio Yoshida
Norio Yoshida
January 19, 2011
Dated

Hisashi Kobayashi
Witness
Yoshinori Sakimoto
Witness

Tetsuya Sakakibara
Tetsuya Sakakibara
January 18, 2011
Dated

Kouichi Tachi
Witness
Takafumi Morizane
Witness

Kazuhiro Mitsukawa
Kazuhiro Mitsukawa
January 25, 2011
Dated

Kengo Takeshita
Witness
Hidemasa Otsubo
Witness

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