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

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

David E. Burchfield
H. William Niu
Richard A. Heppner

Execution Date(s) 12/14/04; 12/14/04; 12/14/04

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

3. Nature of conveyance:

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

2. Name and address of receiving party(ies)

Name: Hamilton Sundstrand Corporation

Internal Address:

Street Address: 4747 Harrison Avenue

P.O. Box 7002

City: Rockford

State: Illinois

Country: USA Zip: 61125-7002

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

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: David L. Wisz

Internal Address: Carlson, Gaskey & Olds PC

Street Address: 400 West Maple Road, Suite 350

City: Birmingham

State: MI Zip: 48009

Phone Number: 248-988-8360

Fax Number: 248-988-8363

Email Address:

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ 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

Authorized User Name

9. Signature:

Signature

January 11, 2005

Date

David L. Wisz

Name of Person Signing

Total number of pages including cover sheet, attachments, and document

3

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 016167 FRAME: 0066

ASSIGNMENT
(Joint Inventors)

WHEREAS, We, **David E. Burchfield, H. William Niu, and Richard A. Heppner** (hereinafter referred to as Assignors), residing respectively at **9801 Caldaro Street, Rancho Cucamonga, CA 91737; 18945 Cancela Place, Roland Heights, CA 91748; and 2364 Tulsa Avenue, Claremont, CA 91733**, have invented new and useful improvements in:

**TANDEM DIFFERENTIAL MOBILITY ION MOBILITY SPECTROMETER
FOR CHEMICAL VAPOR DETECTION**

which is set forth in an application in the United States executed on even date herewith:

AND WHEREAS, **Hamilton Sundstrand Corporation** (hereinafter referred to as Assignee), of **4747 Harrison Avenue, P.O. Box 7002, Rockford, Illinois 61125-7002**, is desirous of acquiring the entire right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, be it known by all whom it may concern, that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have assigned, sold and set over, and by these presents assign, sell and set over unto the Assignee, its successors, legal representatives and assigns, for the territory of the United States of America and all foreign countries, the entire right, title and interest in and to said invention, said application for Letters Patent, including the right to file foreign patent applications corresponding to said application, and the right to claim the priority date of said United States patent application and any legal equivalents thereof, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and to any and all divisions, continuations, and continuations-in-part of said application, or re-issues or extensions of said Letters Patent or Patents prepared and executed by Assignors on even date herewith, the same to be held and enjoyed by the Assignee, as fully and entirely as the same would have been held by the Assignors had this Assignment and sale not been made.

AND the Assignors hereby covenant and agree that the Assignors will at any time upon the request and at the expense of the Assignee execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention and to obtain Letters Patent therefor, and the Assignors hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the said Assignee in accordance with this Agreement.

Dated: 14 Dec. 2004

David E. Burchfield
David E. Burchfield

Witness #1 Robert D. Heppner

Witness #2 Robert D. Heppner

Dated: 14 Dec. 2004

H. William Niu
H. William Niu

Witness #1 Robert D. Heppner

Witness #2 Robert D. Heppner

Dated: 12/14/2004

Richard A. Heppner
Richard A. Heppner

Witness #1 Robert D. Heppner

Witness #2 Robert D. Heppner

Please address all correspondence and telephone calls and, upon recordation, please return this document to:

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