PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date | | |
|-------------------|----------------|--|--|
| Toshiki YAMAGUCHI | 09/02/2010 | | |

RECEIVING PARTY DATA

| Name: | SHIMADZU CORPORATION | | | |
|-----------------|---------------------------------------|--|--|--|
| Street Address: | 1, Nishinokyo-kuwabaracho, Nakagyo-ku | | | |
| City: | Kyoto-shi, Kyoto | | | |
| State/Country: | JAPAN | | | |
| Postal Code: | 604-8511 | | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12934800 |

CORRESPONDENCE DATA

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NAME OF SUBMITTER: Stephen G. Adrian

Total Attachments: 1

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OP \$40.00 12

PATENT REEL: 025059 FRAME: 0738

U.S. ASSIGNMENT

(Insert ASSIGNEE's Name(s) Address(es)) IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

SHIMADZU CORPORATION

1, Nishinokyo-kuwabaracho, Nakagyo-ku, Kyoto-shi, Kyoto 604-8511 JAPAN

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

TURBO-MOLECULAR PUMP

| for which application | for Letter | s Patent | of the | United | States | was | executed | on | even | date | herewith |
|-------------------------|------------|------------|--------|--------|--------|-----|----------|----|------|------|----------|
| unless otherwise indica | ated below | ' : | | | | | | | | | |

filed on _____ Serial No.

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

| Joshiki Tamaguchi | Toshiki YAMAGUCHI | 02/Sep. 200 | | | | | |
|-------------------|-------------------|-------------|--|--|--|--|--|
| (Signature) | (Type Name) | (Date) | | | | | |
| (Signature) | (Type Name) | (Date) | | | | | |
| (Signature) | (Type Name) | (Date) | | | | | |
| (Signature) | (Type Name) | (Date) | | | | | |
| (Signature) | (Type Name) | (Date) | | | | | |
| (Signature) | (Type Name) | (Date) | | | | | |

NO LEGALIZATION REQUIRED

RECORDED: 09/29/2010

PATENT REEL: 025059 FRAME: 0739