Docket No.: 42478-3100

| FORM PTO-1595 (Modified) (Rev. 03-01) | 3 ^{REC} | U6 - | 19-2003 | | PARTMENT OF COMMER Patent and Trademark O | |
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| OMB No. 0651-0027 (exp.5/31/2002) P08A/REV03 | 6-16-03 REC | | | | ratent and trademark O | JIIICE 1 |
| Tab settings → → → ▼ | T | 100 | 477455 | | — V | |
| To the Honorable Director of | of the United States Paten | tanu maudii | | | ocuments or copy there | eof. |
| Takada, Masaki Nishin | rty(ies): nka Higashino, Toru And nura, Ryuichi Murai, Ko ii Tachibana and Yoshio | ichi Wani, | | ss of receiving party ta Electric Industria Daza Kadoma, Kado | l Co., Ltd. | |
| Additional names(s) of convey | ying party(ies) | Yes 🛛 No | | | | |
| 3. Nature of conveyance: | : | | | | | |
| ☐ Assignment | ☐ Merge | r | | | | |
| ☐ Security Agreement | | e of Name | City: Osaka-fu | | tate/Prov.: | |
| ☑ Other Reel/fra | ed Assignment me 013354/0428 | | Country: Japan | Z | IP: 571-8501 | |
| Execution Date: July 24 | 1, 25 and August 1, 2002 | | Additional name(s) & ac | ddress(es) | ☐ Yes ☒ No | |
| 4. Application number(s) If this document is being | or patent numbers(s): ng filed together with a r | new application, | the execution date of | f the application is: | | |
| Patent Application No. | . Filing date | | B. Patent N | o.(s) | * t * * | |
| 10/182,027 | October 7, 200 | 2 | | | -161.5) स्कूष्ट | |
| | A | dditional numbers | ☐ Yes ☒ No | the region of | | |
| 5. Name and address of concerning document | | ondence | 6. Total number of a | applications and pat | tents involved: 1 | |
| Name: Joseph W. Pri | ice | | 7. Total fee (37 CFF | ₹ 3.41): | § 40.00 | |
| | 124 | | | ny excess or insuffi ebited to deposit ac | | |
| Address: SNELL & V | WILMER | | Credited of de | conce to dopoen de | - | |
| 1920 Main Street, Suite | 1200 | | | be charged to dep | osit account | |
| | | | 8. Deposit account | number: | 191829 | |
| City: Irvine | State/Prov | /.: <u>CA</u> | 19-2814 | | * | |
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| Statement and signature To the best of my kno of the original docume | wledge and belief, the f | | ation is true and corre | ect and any attached | d copy is a tree copy | у |
| Joseph W. Price | | \sim | w. | June | 11, 2003 | |
| Name of Pers | - | of pages including of | Signature cover sheet, attachments, a | and 4 | Date 7 | |
| <u> </u> | | nents to be recorded wit | h required cover sheet informationt Recordation Services | | 3.5 | the temperature process. |
| | Direc | tor of the United States | s Patent and Trademark Office andria, VA 22313-1450 | PATENT | 3 5 | |

PATENT REEL: 014176 FRAME: 0547

ASSIGNMENT

| WI | HEREAS, we, | Nobuaki NAC | AO, Hidetaka | HIGASHIN | IO, Toru ANI | OO, Yuusuke | <u>TAKADA,</u> |
|-------------|-----------------|-------------------|--|-------------|--------------|-------------|----------------|
| Masaki NI | ISHIMURA, Ry | uichi MURAI, | Koichi WAN | , Naoki KC | SUGI, Hiroy | ruki TACHIB | ANA and |
| Yoshio WA | TANABE | | ······································ | | | | |
| citizens of | f Japan, respec | tively, have in | vented certa | in new and | l useful imp | rovements i | n a <u>GAS</u> |
| DISCHAR | RGE PANEL | | | | | | |
| | | ····· | | | | | |
| for which | we have exec | cuted application | on for Letter | s Patent of | the United | States, | |
| Serial N | N_0 , 10/182, | 027, file | 10.7.20 | 002 | | | |

WHEREAS, MATSUSHITA ELECTRIC INDUSTRIAL. CO., LTD a corporation of Japan, having a principal place of business at 1006, Oaza Kadoma, Kadoma-shi, Osaka-fu, 571-8501, Japan is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application,

and

NOW, THEREFORE, in consideration of the sum of One Hundred Yen (100¥) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Nobuaki NAGAO, Hidetaka HIGASHINO, Toru ANDO, Yuusuke TAKADA, Masaki NISHIMURA, Ryuichi MURAI, Koichi WANI, Naoki KOSUGI, Hiroyuki TACHIBANA and Yoshio WATANABE have sold, assigned, transferred and set over, unto said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, the entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals and continuations thereof, and all Letters Patents of the United States, which may be granted thereon and all reissues and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every country of the Union, and all applications for Letters Patents which may hereafter be

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PATENT REEL: 014176 FRAME: 0548 filed for said improvements in any country or countries foreign to the United States, and all

Letters Patent which may be granted for said improvements in any country or countries

foreign to the United States, and any official of any country or countries foreign to the United

States, whose duty it is to issue patents, on applications as aforesaid, to issue all Letters

Patents for said improvements to said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.,

its successors, legal representatives and assigns, in accordance with the terms of this

instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned,

and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said MATSUSHITA

ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, any facts known to

us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all

divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to

aid said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and

assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Page 2 of 4

PATENT REEL: 014176 FRAME: 0549

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RECORDED: 06/16/2003