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| 1. Name of conveying party(ies)                                | 2. Name and address of receiving party(ies)  |  |  |  |  |  |  |
| 1. Yasuhiro HYAKUTAKE  | Name: ADAMANT KOGYO CO., LTD.  |  |  |  |  |  |  |
| 2. Shinichi TAKEDA   | Internal Address:  |  |  |  |  |  |  |
| 3. Yusuke AKIYAMA  |  |  |  |  |  |  |  |
| Additional name(s) of conveying party(ies) attached? Yes No    |  |  |  |  |  |  |  |
| 3. Nature of conveyance/Execution Date(s):                     | Street Address: 16-7, Shinden 1-chome,   |  |  |  |  |  |  |
| Execution Date(s) 10/17/12                                     | Adachi-ku  |  |  |  |  |  |  |
| Assignment Merger  |  |  |  |  |  |  |  |
| Security Agreement Change of Name                              | City: Tokyo  |  |  |  |  |  |  |
| Joint Research Agreement                                       | State: Tokyo   |  |  |  |  |  |  |
| Government Interest Assignment                                 | Country: JAPAN Zip: 123-8595   |  |  |  |  |  |  |
| Executive Order 9424, Confirmatory License                     |  |  |  |  |  |  |  |
| Other  | Additional name(s) & address(es) attached? Yes No  |  |  |  |  |  |  |
|  | document serves as an Oath/Declaration (37 CFR 1.63).    B. Patent No.(s)  |  |  |  |  |  |  |
| A. Patent Application No.(s)                                   |  |  |  |  |  |  |  |
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| New 24/42/93/  | •  |  |  |  |  |  |  |
| <b>/</b>   |  |  |  |  |  |  |  |
| ·  | Additional numbers attached? Yes No  |  |  |  |  |  |  |
| •  | 6. Total number of applications and patents  |  |  |  |  |  |  |
| <u> </u>   | 7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00  |  |  |  |  |  |  |
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| Street Address: 1700 Diagonal Road, Suite 310                  | Enclosed   |  |  |  |  |  |  |
|  | None required (government interest not affecting title)  |  |  |  |  |  |  |
| City: Alexandria   | 8. Payment Information   |  |  |  |  |  |  |
| State: Virginia Zip: 22314                                     |  |  |  |  |  |  |  |
| Phone Number: 703-519-9785                                     | 10/24/2012 ZJUHARI 00000037 29421931   |  |  |  |  |  |  |
| Docket Number:   | Deposit Account Number   |  |  |  |  |  |  |
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| Manabu KANESAKA  | Total number of pages including cover sheet, attachments, and documents:   |  |  |  |  |  |  |
| Name of Person Signing   |  |  |  |  |  |  |  |
| ramo or rologning  |  |  |  |  |  |  |  |
|  | To the Director of the U.S. Patent and Trademark Office: Pleas  1. Name of conveying party(ies)  1. Yasuhiro HYAKUTAKE 2. Shinichi TAKEDA 3. Yusuke AKIYAMA  Additional name(s) of conveying party(ies) attached? Yes No  3. Nature of conveyance/Execution Date(s):  Execution Date(s) 10/17/12  Assignment Merger  Security Agreement Change of Name  Joint Research Agreement  Government Interest Assignment  Executive Order 9424, Confirmatory License  Other  4. Application or patent number(s):  A. Patent Application No.(s)  New 24/42193/  Additional numbers attached?  This is a security Agreement  Security Agreement  Executive Order 9424, Confirmatory License  Other  4. Application or patent number(s):  A. Patent Application No.(s)  New 24/42193/  Additional numbers attached:  Name: KANESAKA BERNER & PARTNERS  Internal Address:  Street Address: 1700 Diagonal Road, Suite 310  City: Alexandria  State: Virginia Zip: 22314  Phone Number: 703-519-9785  Docket Number: Email Address: office@uspatentagents.com  9. Signature: Amalu Address  Signature  Manabu KANESAKA |  |  |  |  |  |  |

PATENT

REEL: 029341 FRAME: 0955

## ASSIGNMENT

For value received, I/We, Yasuhiro HYAKUTAKE, Shinichi TAKEDA and Yusuke AKIYAMA having post office address at c/o ADAMANT KOGYO CO., LTD., 16-7, Shinden 1-chome, Adachi-ku, Tokyo 123-8595, Japan hereby sell, assign and transfer to ADAMANT KOGYO CO., LTD. a corporation existing under the laws of Japan located at 16-7, Shinden 1-chome, Adachi-ku, Tokyo 123-8595, Japan and its successors, assigns, and legal representatives the entire right, title, and interest for all countries including the United States of America, in and to certain inventions relating to JOINT FOR CONNECTION described in application for Letters Patent of the United States, executed by me/us on this date, and all patents which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, and authorize and request the Commissioner of Patents and Trademarks to issue all patents on said improvements or resulting therefrom to said Company as assignee of the entire interest, and covenant that I/We have full right so to do, and agree that I/We will communicate to said Company or its representatives any facts known to me/us respecting said improvements and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees, to obtain and enforce proper protection for said invention in the United States.

| Signature | Forthiro Hyatertake       | October 17, 2012 |
|-----------|---------------------------|------------------|
|           | (Name) Yasuhiro HYAKUTAKE |                  |
| Signature | (Name) Shinichi TAKEDA    | Date             |
| Signature | (Name) Yusuke AKIYAMA     | Date             |

PATENT REEL: 029341 FRAME: 0956

## ASSIGNMENT

For value received, I/We, Yasuhiro HYAKUTAKE, Shinichi TAKEDA and Yusuke AKIYAMA having post office address at c/o ADAMANT KOGYO CO., LTD., 16-7, Shinden 1-chome, Adachi-ku, Tokyo 123-8595, Japan hereby sell, assign and transfer to ADAMANT KOGYO CO., LTD. a corporation existing under the laws of Japan located at 16-7, Shinden 1-chome, Adachi-ku, Tokyo 123-8595, Japan and its successors, assigns, and legal representatives the entire right, title, and interest for all countries including the United States of America, in and to certain inventions relating to JOINT FOR CONNECTION described in application for Letters Patent of the United States, executed by me/us on this date, and all patents which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, and authorize and request the Commissioner of Patents and Trademarks to issue all patents on said improvements or resulting therefrom to said Company as assignee of the entire interest, and covenant that I/We have full right so to do, and agree that I/We will communicate to said Company or its representatives any facts known to me/us respecting said improvements and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees, to obtain and enforce proper protection for said invention in the United States.

| Signature   |                                      | Date |                  |  |
|-------------|--------------------------------------|------|------------------|--|
| _           | (Name) Yasuhiro HYAKUTAKE            |      |                  |  |
| Signature _ | S. tabeda .  (Name) Shinichi TAKEDA  | Date | October 17, 2012 |  |
| Signature _ | Muruhe Ohiyama (Name) Yusuke AKIYAMA | Date | October 17, 2012 |  |

PATENT REEL: 029341 FRAME: 0957

**RECORDED: 10/23/2012**