

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Nobuyoshi AWAYA | 08/18/2009 |
| Takashi NAKANO | 08/21/2009 |
| RECEIVING PARTY DATA | |
| Name: | SHARP KABUSHIKI KAISHA |
| Street Address: | 22-22, Nagaike-cho, Abeno-ku |
| City: | Osaka-shi, Osaka |
| State/Country: | JAPAN |
| Postal Code: | 545-8522 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 12563349 |
| CORRESPONDENCE DATA | |
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| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
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| Correspondent Name: | H. Warren Burnam, Jr. |
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| Address Line 2: | 901 NORTH GLEBE ROAD, 11TH FLOOR |
| Address Line 4: | ARLINGTON, VIRGINIA 22203 |
| ATTORNEY DOCKET NUMBER: | 4494-45 |
| NAME OF SUBMITTER: | H. Warren Burnam, Jr. |
| Total Attachments: 2 source=4494-45_ASSIGNMENT#page1.tif source=4494-45_ASSIGNMENT#page2.tif | |

OP \$40.00 12563349

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date 2009/8/18 Signature of inventor (Nobuyoshi Awaya
Nobuyoshi AWAYA

Date 2009/8/21 Signature of inventor (Takashi Nakan
Takashi NAKANO

Date _____ Signature of inventor (_____

Witnessed by: _____ Date _____

Witnessed by: _____ Date _____

Witnessed by: _____ Date _____