Docket No.: 70840/56400 FORM PTO-1595 (Modified) 12-11-2001 U.S. DEPARTMENT OF COMMERCE OMB No. 0651-0027 (exp.5/31/2002) Patent and Trademark Office Tab settings To the Honorable Commissioner of Patents and 101912085 ached original documents or copy thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies): 1. Masao Nakamura Name: Sharp Kabushiki Kaisha Internal Address: ☐ Yes 🛛 No Additional names(s) of conveying party(ies) 3. Nature of conveyance: Street Address: 22-22 Nagaike-Cho, Assignment ☐ Merger Abeno-ku, Osaka 545-8522 JAPAN ☐ Security Agreement ☐ Change of Name □ Other Execution Date: September 18, 2001 4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 09/931,975 Yes X) No Additional numbers attached? 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: David G. Conlin, Esq. (Reg. No.: 27,026) 7. Total fee (37 CFR 3.41):....\$ 40.00 Internal Address: DBRC, IPPG of ☑ Enclosed - Any excess or insufficiency should be credited or debited to deposit account Edwards & Angell, LLP ☐ Authorized to be charged to deposit account P.O. Box 9169 8. Deposit account number: Street Address: 101 Federal Street 04-1105 00000139 09931975 2/10/2001 DBYRNE FC:581 (Attach duplicate copy of this page if paying by deposit account)

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard J. Roos, Esq. (Reg. No. 45,053)

Signature

October 17, 2001 Date

Name of Person Signing

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

Mail documents to be recorded with required cover sheet information to:

ASSIGNMENT

WHEREAS, the following inventor(s): Masao NAKAMURA

| (Names of Inventors) |
|---|
| (hereinafter designated as the undersigned) has (have) invented certain new and useful |
| improvements in METHOD FOR PRODUCING SOLID-STATE IMAGING DEVICE |
| (Title of Invention) |
| for which application for Letters Patent of the United States |
| is being filed herewith |
| has been filed on August 16, 2001 Serial No. 09/931,975, and |
| WHEREAS, SHARP KABUSHIKI KAISHA, a Japanese Corporation, having its principal place of business at 22-22 Nagaike-Cho, Abeno-ku, Osaka 545-8522 Japan, its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and to any Letters Patent(s) that may be granted therefor in the United States of America; |

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration to the undersigned, the receipt of which is hereby acknowledged, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said application, said invention and said patent(s) as may be known and accessible to the undersigned, and will testify as to the same in any interference or litigation related thereto, and will promptly execute and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or said patent(s) in connection with any interference which may be declared, and any litigation concerning this application or any continuation, division or reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the

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Assignee in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts & Cushman, Intellectual Property Group of Edwards & Angell, LLP, of 130 Water Street, Boston, Massachusetts 02109-4280, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, signed by the undersigned on the date(s) opposite the undersigned names.

| Date Sep. 18, 2001 | Signature of Inventor: Masao hahamura |
|--------------------|---------------------------------------|
| | Name:Masao NAKAMURA |
| Date | Signature of Inventor: |
| • | Name: |

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RECORDED: 12/07/2001