(Rev. 03/01)	U.S. DEPARTMENT OF COMMERCI U.S. Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): Fumikazu Harazono 2 - 3 - 2 3	Name and address of receiving party(ies) Name: Matsushita Electric Industrial Co., Ltd. Internal Address:
Additional name(s) of conveying party(les) attached? Tay Yes No	
3. Nature of conveyance:	
Assignment	Street Address: 1006, Kadoma, Kadoma-shi
Other	City: Osaka State: JAPAN Zip:
Execution Date: January 15, 2003	Additional name(s) & address(es) attached? Yes No
Application number(s) or patent number(s):	I 300 300 300 300 300 300 300 300 300 30
	B. Patent No.(s) tached? □ Yes ☑ No
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Jeffrey J. Sopko	7. Total fee (37 CFR 3.41)\$ 40.00
Internal Address:	Enclosed
Internal Address.	Authorized to be charged to deposit account any fees not covered by an enclosed check.
Street Address: 526 Superior Avenue East, Suite 1200	8. Deposit account number: 35179 16-0820, Order No.
City: Cleveland State: Ohio Zip: 44114-1484	(Attach duplicate copy of this page if paying by deposit account)
DO NOT USE	THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing is a true copy of the original document. Leffrey I Sopko Name of Person Signing	Signature January 27, 2003 Date
Mail documents to be recorded with	er sheet, attachments, and documents: required cover sheet information to: Trademarks, Box Assignments , D.C. 20231

PATENT REEL: 013713 FRAME: 0532

Serial No.: 10/307,174 Filed: November 29, 2002

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

SOLID-STATE IMAGING APPARATUS AND MANUFACTURING METHOD THEREOF

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the date(s) indicated below, which application is further identified as Pearne & Gordon LLP Docket No. 35179.

	WHEREAS,			INDUSTRIAL C	
	ooration of06, Kadoma	Japan a, Kadoma-sh	i, Osaka,	, and having Japan	g a place of business at
	hout the wor				right, title, and interest entions and patent rights
and the patent includice continue thereody said in author assigned and agunders instrumor vessapplica United issue a the en official	ency of which roughout the applications, ing without linuations thereof, all right to approvements a rity, entity, or ed, transferred greed by the unsigned, that at ments will be not in assignee, ation, patent, it is sof foreign of	are hereby acknoworld, in, to and patent rights, initation said applif, all patents we sue for past infrind inventions by organization, and delivered undersigned, and for assignee's requestance, executed, and its successors or patent right or on issioner of Patented States patent ie, and interest is ountries are here	owledged, all rid under said immediated inventor's olication for particle may be grangement thereus states or nation of all application ito assignee, its or executors, and tany and all apind delivered as assigns, any in their right or professional tradems granted on any in, to, and under by authorized to	ght, title, and interprovements and incertificates thereoftent in the United ranted thereon, alonder, all patents was other than the United successors and assiministrators, and leplications, affidavimay be necessary, approvement, inventoperty covered by tarks is hereby recovered by arks is hereby recovered and applications of said applications of said applications of the same, and to issue any letters	deration, the receipt and erest, in the United States nventions and all patents, of, therefor, and therein, I States, all divisions and I reissues and extensions which may be granted for United States, or by other been and are hereby sold, signs; and it is covenanted egal representatives of the ts, assignments, and other or desirable to secure for tions, right, title, interest, or this assignment, and the quested and authorized to ns to assignee as owner of appropriately empowered a patent granted on any of erest in, to, and under the
	signment any	further identificat	ion which may	be necessary or de	LP the power to insert or esirable in order to comply ordation of this document
					Page 1 of

Signature:

Today's Date:

PATENT REEL: 013713 FRAME: 0533

Serial No.: 10/307,174 Filed: November 29, 2002

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

SOLID-STATE IMAGING APPARATUS AND MANUFACTURING METHOD THEREOF

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the date(s) indicated below, which application is further identified as Pearne & Gordon LLP Docket No. 35179

WHEREAS, MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

a corporation of Japan, and having a place of business at 1006, Kadoma, Kadoma-shi, Osaka, Japan

hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents. patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold. assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne & Gordon LLP 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 United States Patent and Trademark Office for recordation of this document.

Page 1 of 2

1)	Inventor Name (solo or joint): Fumikazu HARAZONO
	Signature: <u>Junulhazu Varazene</u> Today's Date: January 15, 2003
	Date I Signed Declaration:
	Witness:
	Witness:
2)	Inventor Name (joint):
	Signature:
	Today's Date:
	Date I Signed Declaration:
	Witness:
	Witness:
)	Inventor Name (joint):
	Signature:
	Today's Date:
	Date I Signed Declaration:
	Witness:
	Witness:

RECORDED: 02/03/2003

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

Page 2 of 2