Correspondence concerning document should be mailed:  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4200 (312) 321-4299 Fax  Payment Information:  Cab/2006 DBYRNE 00000124 29270312  7. Total fee (37 CFR 1.21(h) & 3.41)  Authorized to be charged by credit card. Authorized to be charged to Deposit Account No. 23-1925. Enclosed None required (government interest not affecting title)  8. Payment Information:  a. □ Credit Card: Last 4 Numbers	Cliont/Matter N-	0252/620 (D4454 04)	<del>-</del> 12-2	9-2006 =		<del></del>	
To the Director of the U.S. Patents and Trade.  10 15 15 Decretor of the U.S. Patents and Trade.  10 15 Name of conveying Party(les)/Execution Date:  TAKAARI UEMOTO - 12/07/06 KELI NISHMOTO - 12/07/06 YASUHARU UENO - 12/07/07 YASUHARU UENO - 12/07/07 YENG UENO - 12/07 YENG UENO - 12/07 YEND UE	Chent/Matter No						
To the Director of the U.S. Patent and Trade.  1. Name of conveying Party(les)/Execution Date:  1. Name of conveying Party(les)/Execution Date:  1. Name and Address of receiving Party(les)  1. Name and Address of party and address of party to whom correspondence concerning document should be mailed.  2. Name and Address of party to whom correspondence concerning document should be mailed.  3. Nature of Conveyance:  2. Name and Address of party to whom correspondence concerning document should be mailed.  3. Nature of Conveyance:  3. Nature of Conveyance:  4. Application or patent number(s).  4. Application or patent number(s).  4. Application or patent number(s).  5. Name and address of party to whom correspondence concerning document should be mailed.  5. Name and address of party to whom correspondence concerning document should be mailed.  5. Name and address of party to whom correspondence concerning document should be mailed.  5. Name and address of party to whom correspondence concerning document should be mailed.  6. Total number of applications and patents involved: 1  7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	10	-16 16 REC			ET		
1. Name of conveying Party(ies)Execution Date:  TAKAARI UEMOTO - 12/07/06 KELJI NISHIMOTO - 12/07/06 SATOSHI SHIDA - 12/07/06 SATOSHI SHIDA - 12/07/06 SATOSHI SHIDA - 12/08/06 YUJI OMATA - 12/15/06  Additional name(s) of conveying party(ies) attached?  Yes S No  3. Nature of Conveyance. Execution Date(s) December 7, 2006; December 8, 2006; and December 15, 2006  Assignment			<u> </u>	55135 =			
TAKAARI UEMOTO - 12/07/06 KELI NISHIMOTO - 12/07/06 YASUHARU UENO - 12/07/06 SATOSHI SHIDA - 12/08/06 YUJI OMATA - 12/15/06  Additional name(s) of conveying party(ies) attached?    Yes   No			aue				
REJUNSHIMOTO - 1207/06	1. Name of co	nveying Party(les)/Exec	ution Date:	2. Name and Addre	ess of receiving Party(ies):	:	
SATOSHI SHIDA - 12/08/06 YUJI OMATA - 12/15/06  Additional name(s) of conveying party(ies) attached?    Yes   No		KEIJI NISHIMOTO - 12/0	7/06	Name:		125	
Additional name(s) of conveying party(ies) attached?    Yes   No   Additional name(s) and addresses attached?   Yes   No	SATOSHI SHIDA - 12/08/06			Street Address:	1006 OAZA KADOMA	5 U.S 2703	
Additional name(s) and addresses attached?  \  Yes \infty No    Nature of Conveyance:   Execution Date(s): December 7, 2006; December 8, 2006; and December 15, 2006   Assignment				City:	KADOMA-SHI	066	
Additional name(s) and addresses attached?  \ Yes \ No  3. Nature of Conveyance: Execution Date(s):December 7, 2006; December 8, 2006; and December 15, 2006  \[ \times \ Assignment	Additional name	e(s) of conveying party(ies	) attached?	Country/Postal Code:	OSAKA 571-8501, JAPAN	700	
Execution Date(s):December 7, 2006; December 8, 2006; and December 15, 2006  Assignment	Yes	☐ Yes ⊠ No			Additional name(s) and addresses attached? ☐ Yes ☒ No		
Assignment			cember 8, 2006; and I	December 15, 2006			
Government Interest Assignment  Other  4. Application or patent number(s). A. Patent Application No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  Additional numbers attached?  No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  Additional numbers attached?  No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  B. Patent No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  B. Patent No.(s)  Additional numbers attached?  No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  B. Patent No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  B. Patent No.(s)  Additional numbers attached?  No.(s)  B. Patent No.(s)  B. Patent No.(s)  Additional numbers attached?  No.  Additional numbers attached?  No.  B. Patent No.(s)  Additional number of applications and patents involved: 1  Authorized to be charged by credit card.  Authorized to be charged by credit card.  Authorized to be charged by credit card.  Authorized to be charged to Deposit Account No. 23-1925.  Enclosed  None required (government interest not affecting title)  8. Payment Information:  a. Credit Card: Last 4 Numbers Expiration Date  b. Charge fee and/or any Deficiencies to Deposit Account Number: 23-1925  Authorized User Name: Brinks Hofer Gilson & Lione  P.O. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	⊠ Assignm						
A Application or patent number(s). A. Patent Application No.(s)  Additional numbers attached?  Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 (312) 321-4299 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 Fax  BRINKS HOFER GILSON & LIONE BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4290 DATE Tadashi Horie Tadashi Horie Name of Person Signing	、☐ Security			☐ Joint Research Agreement			
A. Patent Application No.(s)  Additional numbers attached?  \[ \text{Yes} \otimes \text{No} \]  5. Name and address of party to whom correspondence concerning document should be mailed:  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4200 (312) 321-4299 Fax  Payment Information:  28/2006 DBYRNE  Power and address of party to whom correspondence concerning document should be mailed:  RRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4299 Fax  Payment Information:  a.  \[ \text{Credit Card: Last 4 Numbers Expiration Date} \]  8. Payment Information:  a.  \[ \text{Credit Card: Last 4 Numbers Expiration Date} \]  b. \[ \text{Charge fee and/or any Deficiencies to Deposit Account Number: 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione} \]  9. Signature:    Tadashi Horie   Tadashi Horie   Name of Person Signing	☐ Governm	nent Interest Assignment	Other			İ	
5. Name and address of party to whom correspondence concerning document should be mailed:  BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4200 (312) 321-4299 Fax  PARTICLE 100000124 2970312 FC:8021  O0000124 2970312 FC:8021  6. Total number of applications and patents involved: 1  7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged by credit card. Authorized to be charged to Deposit Account No. 23-1925. Enclosed None required (government interest not affecting title)  8. Payment Information: a. □ Credit Card: Last 4 Numbers Expiration Date  b. ⋈ Charge fee and/or any Deficiencies to Deposit Account Number: 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione  12-11/2-076 Date Total number of pages including cover sheet, attachments, and documents: 4				No. MAIN			
BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610 (312) 321-4200 (312) 321-4299 Fax    Authorized to be charged by credit card.   Authorized to be charged to Deposit Account No. 23-1925   Enclosed   None required (government interest not affecting title)   Authorized to be charged to Deposit Account No. 23-1925   Enclosed   None required (government interest not affecting title)   Authorized Uger Name: Brinks Hofer Gilson & Lione   Credit Card: Last 4 Numbers	correspond	address of party to who	m		plications and patents involv	ed: <u>1</u>	
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FC:8021  40.00 0P  Expiration Date  b. Charge fee and/or any Deficiencies to Deposit Account Number: 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione  9. Signature:  Signature  Tadashi Horie Name of Person Signing  Total number of pages including cover sheet, attachments, and documents: 4		1				ing titlo)	
Account Number: 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione  9. Signature:  Signature  Tadashi Horie Name of Person Signing  Account Number: 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione  12/19/2076  Date Total number of pages including cover sheet, attachments, and documents: 4			$\setminus$				
Signature Date <u>Tadashi Horie</u> Total number of pages including cover  Name of Person Signing sheet, attachments, and documents: 4			1	Account Numbe	r: 23-1925		
Tadashi Horie Total number of pages including cover  Name of Person Signing sheet, attachments, and documents: 4	9. Signature:	Tourse Ho		12/19/20	076		
	-	Signature Tadashi F		Total number of pag	es including cover		
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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

## **ASSIGNMENT**

WHEREAS, <u>Takaari Uemoto</u>, <u>Keiji Nishimoto</u>, <u>Yasuharu Ueno</u>, <u>Satoshi Shida</u>, and <u>Yuji Omata</u>, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled <u>LIGHTING APPARATUS</u>, executed by Assignors on the same date as this Assignment;

WHEREAS, <u>Matsushita Electric Industrial Co., Ltd.</u>, a corporation organized and existing under the laws of <u>Japan</u>, having a place of business at <u>1006 Oaza Kadoma, Kadoma-shi</u>, <u>Osaka 571-8501</u>, <u>Japan</u>, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or

PATENT REEL: 018733 FRAME: 0153 any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE:	Dec. 7. 2006	Takaari Vemoto
WITNESSED:		Takaari Uemoto
DATE:	Dec. 7. 2006	Yoko Hanefuyi
DATE:	Dec. 7. 2006	Yoho Hanefugs K. Yannate
DATE:	Dec 7. 2006	Keiji Nishimoto  Keiji Nishimoto
WITNESSED:		Keiji Nishimoto
DATE:	Dec . 7. 2006	Woho Kanefugi
DATE:	Dec. 7. 2006	Koho Kanefugi K. Garrente
DATE:	Dec. 7. 2006	Yaselharu llener
WITNESSED:		Yasuharu Ueno
DATE:	Dec . 7. 2006	Mobo Kanefuer
DATE:	Dec. 7. 2006	Moko Kanefuyi K. Farma
DATE:	Dec. 8. 2006	Satoshi Shida Satoshi Shida
WITNESSED:		•
DATE:	Dec . J. 2006	Moho Kanefugi K. Tanute
DATE:	Dec & 2006	K. Janut

DATE:	Dec. 15, 2006.	2 Juji Omata
WITNESSED:		Yujf Onfata
DATE:	Dec. 15. 2006	yoko Kanefuji
DATE:	Dec. 15, 2066	K. Garnet