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To the Director of the U.S. Patent and Trademark Office  
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**1. Name of conveying party(ies):**  
Hiroshi TAKAHASHI (09/20/2006), Yukio HARA (09/20/2006), Masahiro KIKUCHI (10/06/2006), Yoshiichi HORIKOSHI (09/13/2006), Hiroto WATANABE (09/11/2006), Ryouichi YOSHIDA (09/08/2006)

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
Name: Sony Corporation  
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1-7-1 Konan, Minato-ku,  
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JAPAN  
City: \_\_\_\_\_  
State: \_\_\_\_\_  
Country: \_\_\_\_\_ Zip: \_\_\_\_\_  
Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s): In parentheses after inventor names

Assignment  Merger  Change of Name  
 Security Agreement  Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

**4. Application or patent number(s):**  This document is being filed together with a new application.

A. Patent Application No.(s)  
10/586,353

B. Patent No.(s)  
10/568353

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: Ronald P. Kananen  
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**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  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**  
a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account Number 18-0013  
Authorized User Name Ronald P. Kananen

**9. Signature:**  
[Signature]  
Signature  
Date: June 25, 2007  
40.00 DA  
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06/25/2007 GPREYI 00000145 100013 0568353

Total number of pages including cover sheet, attachments, and documents: 4

Name of Person Signing: Ronald P. Kananen - 24,104

Japanese Language Declaration  
(日本語宣言書)

私は、ここに、以下に記載した外国での特許出願または発明者証の出願、或いは本国外の少なくとも一國を指定している米国法典第35編第365条(a)によるPCT国際出願について、同第119条(a)(4)項又は第365条(a)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日より前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる形も、下記の内容をチェックすることにより示した。

I hereby claim foreign priority under Title 35, United States Code Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365 (a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate, or PCT International application having a filing date before that of the application for which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed  
優先権を主張なし

外国での先行出願

2004-011960 (Number) (番号)	Japan (Country) (国名)	20/01/2004 (Day/Month/Year Filed) (出願日/月/年)	<input type="checkbox"/>
_____ (Number) (番号)	_____ (Country) (国名)	_____ (Day/Month/Year Filed) (出願日/月/年)	<input type="checkbox"/>

私は、ここに、下記はいかなる米国特許出願についても、その米国法典第35編119条(a)項の利益を主張する。

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

_____ (Application No.) (出願番号)	_____ (Filing Date) (出願日)
_____ (Application No.) (出願番号)	_____ (Filing Date) (出願日)

私は、ここに、下記はいかなる米国出願についても、その米国法典第35編第120条に基づく利益を主張し、又本区を指定するいかなるPCT国際出願についても、その同第365条(c)に基づく利益を主張する。また、本出願の各特許請求の範囲の主題が、米国法典第35編第112条第1段に規定された範囲で、発行する米国出願又はPCT国際出願に開示されていない場合においては、その先行出願の出願日と本国内出願日またはPCT国際出願日との間の期間中に入手された情報で、基知能的試案第37編第1.56に定義された特許性に関わる重要な情報について開示義務があることを承認する。

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

PCT/JP2005/000612 (Application No.) (出願番号)	19/01/2005 (Filing Date) (出願日)	PENDING (Status Patented, Pending, Abandoned) (状況：特許許可、係属中、放棄)
_____ (Application No.) (出願番号)	_____ (Filing Date) (出願日)	_____ (Status Patented, Pending, Abandoned) (状況：特許許可、係属中、放棄)

私は、ここに表明された私自身の知識に係る陳述が真実であり、且つ信用と信ずることに基づく陳述が、真実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、若しくはその両方により処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題が生ずることを察した上で陳述が行われたことを、ここに宣言する。

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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## Japanese Language Declaration

(日本語宣言書)

委任状：私は本出願を審査する手続きを行い、且つ米特許商標庁との全ての業務を遂行するために、記名された発明者として、下記の弁護士及び/または弁理士を任命する。(氏名及び登録番号を記載すること)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number).

書頭送付先

Please direct all communication to the following address:

Ronald P. Kananen, Esq.  
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1233 20<sup>th</sup> Street, N.W., Suite 501, Washington, D.C. 20036  
Telephone No. (202)955-3750; Facsimile No. (202)955-3751

返送電郵送付先：(氏名及び電話番号)

And I hereby appoint the firm of Rader, Fishman & Grauer PLLC, Customer No. 23353 including as principal attorneys: Richard D. Grauer, Reg. No. 22,388; David T. Nikaido, Reg.No.22,663; Ronal P. Kananen, Reg. No. 24,104; Ralph T. Rader, Reg.No.28,772; Carl Schaukowitz, Reg.No.29,211; Michael D. Fishman, Reg.No.31,951; Joseph V. Coppola, Sr., Reg. No. 33,373; Michael B. Stewart, Reg. No. 36,018; Alexander D. Rabinovich, Reg. No. 37,425; Kevin D. Rutherford, Reg. No. 40412,

Glenn E. Forbis, Reg. No. 40,610; Lee Cheng, Reg.No.40,949; Kristin L. Murphy, Reg. No. 41,212; James F. Kamp, Reg. No. 41,882; Brian K. Dutton, Reg.No.47,255; Shawn B. Cage, Reg.No.51,522; Jonathan R. Lee, Reg. No. 56,561, Toshikatsu Imaizumi, Limited Recognition

唯一または第一発明者氏名	Full name of sole or first inventor Hiroshi Takahashi
発明者の署名 日付	Inventor's signature Date <i>Hiroshi Takahashi</i> '06. Sep. 20
住所	Residence Fukushima, Japan
国籍	Citizenship Japan
郵便の宛先	Post Office Address c/o Sony Energy Devices Corporation 1-1, Aza-shimosugishita, Takakura Hiwada-cho, Koriyama-shi Fukushima 963-0531, Japan

第二共同発明者がいる場合、その氏名	Full name of second joint inventor, if any Yukio Hara
第二共同発明者の署名 日付	Second inventor's signature Date <i>Yukio Hara</i> September 20, 2006
住所	Residence Fukushima, Japan
国籍	Citizenship Japan
郵便の宛先	Post Office Address c/o Sony Corporation 7-35, Kitashinagawa 6-chome, Shinagawa-ku Tokyo 141-0001, Japan

(第三以下の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

Japanese Language Declaration  
(日本語宣誓書)

第三共同発明者がある場合、その氏名	Full name of 3 <sup>rd</sup> joint inventor, if any Masahiro Kikuchi
第三共同発明者の署名	3 <sup>rd</sup> inventor's signature Date <i>Masahiro Kikuchi '06. Sep. 11</i>
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国籍	Citizenship Japan
郵便の宛先	Post Office Address  c/o Sony Corporation 7-35, Kitashinagawa 6-chome, Shinagawa-ku Tokyo 141-0001, Japan
第四共同発明者がある場合、その氏名	Full name of 4th joint inventor, if any Yoshiichi Horikoshi
第四共同発明者の署名	4 <sup>th</sup> inventor's signature Date <i>Yoshiichi Horikoshi September 13, 2006</i>
住所	Residence Fukushima, Japan
国籍	Citizenship Japan
郵便の宛先	Post Office Address  c/o Sony Energy Devices Corporation 1-1, Aza-shimosugishita, Takakura Hiwada-cho, Koriyama-shi Fukushima 963-0531, Japan
第五共同発明者がある場合、その氏名	Full name of 5th joint inventor, if any Hiroto Watanabe
第五共同発明者の署名	5 <sup>th</sup> inventor's signature Date <i>Hiroto Watanabe September 11, 2006</i>
住所	Residence Fukushima, Japan
国籍	Citizenship - Japan
郵便の宛先	Post Office Address  c/o Sony Energy Devices Corporation 1-1, Aza-shimosugishita, Takakura Hiwada-cho, Koriyama-shi Fukushima 963-0531, Japan

第五共同発明者がある場合、その氏名	Full name of 6 <sup>th</sup> joint inventor, if any Ryouichi Yoshida
第五共同発明者の署名	<div style="display: flex; justify-content: space-between;"> <span>6<sup>th</sup> inventor's signature</span> <span>Date</span> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <span><i>Ryouichi Yoshida</i></span> <span>September 8, 2006</span> </div>
	Residence Fukushima, Japan
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	Post Office Address c/o Sony Energy Devices Corporation 1-1, Aza-shimosugishita, Takakura Hiwada-cho, Koriyama-shi Fukushima 963-0531, Japan