1. Name of conveying party(ies):

3. Nature of conveyance: X Assignment

Execution Date: January 14, 1999

A. Patent Application No(s).

City: Alexandria

9. Statement and signature.

4. Application number(s) or patent number(s):

5. Name and address of party to whom correspondence

State: VA

To the Honorable Commissioner o

Kikuji FUKAI, Koji SAITO, Taro YASUDA, Yutaka AIKAWA

Additional name(s) of conveying party(ies) attached? $\underline{\hspace{0.1cm}}$ Yes \underline{X} No

02-22-1999



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

04 2		original documents or copy thereto:	9		
2.	Name and address	of receiving party(ies):		90	a
	Name: Taiyo Yude	en Co., Ltd.	Š	37	9
	Internal Address:		n	/24	0)
	_		541	60	02

iji FUKAI, Koji SAITO, Taro YASUDA, Yutaka AIKAWA	Name: Taiyo Yuden Co., Ltd.
	Internal Address:
itional name(s) of conveying party(ies) attached?Yes X_No	
Nature of conveyance:	·
X Assignment Merger	Street Address: 16-20, Ueno 6-chome, Taito-ku
Security Agreement Change of Name	
Other	City: Tokyo 110-0005 State/Country: JAPAN _ ZIP:
ecution Date: January 14, 1999	Additional name(s) & address(es) attached?YesX No
Application number(s) or patent number(s):	
If the document is being filed together with a new application, the ex-	ecution date of the application is: January 14, 1999
Patent Application No(s).	B. Patent No(s).
	<u> </u>
Additional numbers attac	hed? Yes X No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: LOWE HAUPTMAN GOPSTEIN GILMAN & BERNER	7. Total fee (37 CFR 3.41)\$40.00
Internal Address:	X Enclosed
	Authorized to be charged to deposit account
Street Address: 1700 Diagonal Road, Suite 310	8. Deposit account number:

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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.	2				
Allan M. Lowe, Reg. No. 19,641 by: Kenneth M. Berner, Reg. No. 37,093	Kenneth M. Bloner	February 3, 1999			
Name and Registration No. of Person Signing	Signitare	Date			
	Total number of pages of	comprising cover sheet: 1			
	<u></u>				

CMB No. 0851-0011 (exp. 4/94)

PATENT

REEL: 9763 FRAME: 0776

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which

(1) Kikuji FUKAI (4) Yutaka AIKAWA (2) KOji SAITO (5) (3) Taro YASUDA (6) who have made a certain new and useful invention, hereby sell, assign and transfer unto TAIYO YUDEN CO.,LTD. 16-20,Ueno 6-chome. Taito-ku, Tokyo 110-0005 JAPAN its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled ELECTRONIC COMPONENT SUPPLY APPARATUS (a) for which an application for United States Letters Patent was filed on, and identified by United States Serial No, or (b) for which an application for United States Letters Patent was executed on, and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations—in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE; its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred. SIGNED on the dates indicated aside our signatures: INVENTORS DATE SIGNED 1 1999.1.11 Name: Kikuji Fukai	is hereby acknowledged, the undersigned,	
TAIYO YUDEN CO.,LTD. 16-20,Ueno 6-chome. Taito-ku, Tokyo 110-0005 JAPAN its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled ELECTRONIC COMPONENT SUPPLY APPARATUS (a) for which an application for United States Letters Patent was filed on, and identified by United States Serial No, or (b) for which an application for United States Letters Patent was executed on, and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE; AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred. INVENTORS DATE SIGNED 1 1999.1.11 Name: Kikuji Fukai	(1) Kikuji FUKAI (2) Koji SAITO	(5)
TAIYO YUDEN CO.LTD. 16-20, Ueno 6-chome. Taito-ku, Tokyo 110-0005 JAPAN its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled ELECTRONIC COMPONENT SUPPLY APPARATUS (a) for which an application for United States Letters Patent was filed on, and identified by United States Serial No, or (b) for which an application for United States Letters Patent was executed on, and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE; its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred. SIGNED on the dates indicated aside our signatures: INVENTORS DATE SIGNED 1 999.1.1/1	(3) Taro YASUDA	(6)
as defined in 35 U.S.C. 100 in the invention entitled ELECTRONIC COMPONENT SUPPLY APPARATUS (a) for which an application for United States Letters Patent was filed on, and identified by United States Serial No, or (b) for which an application for United States Letters Patent was executed on, and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE; AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred. SIGNED on the dates indicated aside our signatures: INVENTORS DATE SIGNED 1 999.1.11 Name: Kikuji FUKAI	TAIYO YUDEN CO.,LTD. 16-20,Ueno 6-chome.	
Serial No	as defined in 35 U.S.C. 100 in the invention en	titled
and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE; AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred. SIGNED on the dates indicated aside our signatures: INVENTORS DATE SIGNED 1)		etters Patent was filed on, and identified by United States
United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE; AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred. SIGNED on the dates indicated aside our signatures: DATE SIGNED 1 1999.1.11	(b) for which an application for United States	Letters Patent was executed on,
INVENTORS DATE SIGNED 1) Kikuji FUKAI Name: Kikuji FUKAI	United States Letters Patent which may be gracontinuations, or continuations-in-part thereof, a Industrial Property to the said ASSIGNEE, for undersigned agree that the attorneys of record is and obtaining original, divisional, reissued or exsuccessors, assigns and legal representatives, and based thereon growing out of or related to the said	nted therefor and any and all extensions, divisions, reissues, substitutes, renewals, and the right to all benefits under the International Convention for the Protection of r its interest as ASSIGNEE, its successors, assigns and legal representatives; the n said application shall hereafter act on behalf of said ASSIGNEE; ransfer a like interest, and to render all necessary assistance in making application for xtended Letters Patent of the United States, upon request of the said ASSIGNEE, its without further remuneration, in and to any improvements, and applications for patent id invention; and to execute any papers by the said ASSIGNEE, its successors, assigns
1) Kikuji FUKAI 1999.1.11	SIGNED on the dates indicated aside our signa	tures:
Name: Kikuji FUKAI	INVENTORS	
Name: Kikuji FUKAI	n Kikuli FUKAL	1999.1.11
	Name: Kikuji FUKAI	1999 1 11
$\frac{\text{KoS}_{1} \text{ SA}_{1} \text{ U}}{\text{KoS}_{1} \text{ SA}_{2} \text{ U}} = \frac{\text{CoS}_{1} \text{ TPO}}{\text{CoS}_{2} \text{ TPO}}$	2) Koji SAITO	
3) Taro YASUDA	3) Tara YASUDA	
Name: Taro YASUDA 4) Yutaka Alkawa 1999.1.14	4) Yutaka AIKAWA	
Name: Yutaka Alkawa	Name: Yutaka Alkawa	
5) Name:		
Name:		

PATENT REEL: 9763 FRAME: 0777