00
9
ı
9
N
Ü
∞

FORM PTO-1595



U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

11119774770	Patent and Trademark Offic
100823449	Atty. Docket No. 04173.0378
o the Assistant Commissioner for Patents:	
lease record the attached original document	s or copy thereof. ATTN. BOX ASSIGNMEN
. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Masaru ANDO	
	Name: KABUSHIKI KAISHA TOSHIBA
	A.O
dditional names(s) of conveying party(ies)	Internal Address:
ttached?Yes XX_No	
Table and Table	
. Nature of conveyance:	Street Address. 72 Herritage she U
. Macure or conveyance:	Street Address: 72, Horikawa-cho, 0
V Northwest Verses	Saiwai-ku, Kawasaki-shi, Kanagawa-ken,
X AssignmentMerger	Japan
Security Agreement Change of Name	City:
Other	State: ZIP:
Execution Date: July 17, 1998	Additional name(s) & address(es) attached
	Yes XX No
If this document is being filed together	· · · · · · · · · · · · · · · · · ·
the execution date of the application is:	·
the execution date of the application is.	July 17, 1996
A. Patent Application Nos.	D Datast No. (a)
_ -	B. Patent No.(s)
09/14/15/28	
09/140538	
•	
Additional numbers atta	ched? YES X NO
5. Name and address of party to whom	1
	6. Total number of applications and natents
correspondence concerning document	6. Total number of applications and patents
correspondence concerning document	6. Total number of applications and patents involved 1
correspondence concerning document should be mailed:	· -
should be mailed:	
should be mailed: Name: Mr. Ernest F. Chapman	
should be mailed: Name: Mr. Ernest F. Chapman Internal Address:	involved 1
<pre>Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett</pre>	involved _1
should be mailed: Name: Mr. Ernest F. Chapman Internal Address:	involved 1
<pre>Name: Mr. Ernest F. Chapman Internal Address: Finnegan, Henderson, Farabow, Garrett</pre>	involved _1
<pre>Name: Mr. Ernest F. Chapman Internal Address: Finnegan, Henderson, Farabow, Garrett</pre>	involved 1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed
Name: Mr. Ernest F. Chapman Internal Address: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address:	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to
<pre>should be mailed: Name: Mr. Ernest F. Chapman Internal Address: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W.</pre>	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to
<pre>should be mailed: Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C.</pre>	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to deposit account
<pre>should be mailed: Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: ZIP: 20005</pre>	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to
should be mailed: Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005	involved _1 7. Total fee (37 CFR 3.41): \$40.00 X Enclosed Authorized to be charged to deposit account
Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005	involved _1 7. Total fee (37 CFR 3.41): \$40.00 X Enclosed Authorized to be charged to deposit account
Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005 998 PALLEN 0000031 09140538	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to deposit account
Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005 998 PALLEN 0000031 09140538	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to deposit account 8. Deposit account number: 06-0916
Name: Mr. Ernest F. Chapman Internal Address: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005 998 PALLEN 0000031 09140538 10.00 0P Statement and signature. To the best of my knowledge and belief, th	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to deposit account 8. Deposit account number: 06-0916
Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005 PALLEN 0000031 09140538	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to deposit account 8. Deposit account number: 06-0916
Name: Mr. Ernest F. Chapman Internal Address: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005 998 PALLEN 0000031 09140538 1 40.00 CP	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to deposit account 8. Deposit account number: 06-0916
Name: Mr. Ernest F. Chapman Internal Address: Finneqan, Henderson, Farabow, Garrett & Dunner, L.L.P. Street Address: 1300 I Street, N.W. City: Washington, D.C. State: 2IP: 20005 998 PALLEN 00000031 09140538 81 40.00 CP 9. Statement and signature. To the best of my knowledge and belief, th	involved _1 7. Total fee (37 CFR 3.41): \$ 40.00 X Enclosed Authorized to be charged to deposit account 8. Deposit account number: 06-0916

ERNEST F. CHAPMAN

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

SOLE/JOINT INVENTION (U.S. Rights Only)

ASSIGNMENT

for which I/WE executed an application for United States Letters Patent concurrently herewith or on	WHEREAS I/We, the below named inventor(s), [hereinafter referred thave made an invention entitled: PRESS-CONNECTION SEMICONDUCTOR DEVICE AND PRESS-CONNECTION SEMICON ASSEMBLY	DUCTOR
a corporation of Japan ,whose post office address is 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, ar interest in and to this invention, the application for United States Letters Patent on thi invention and the Letters Patent to be issued upon this application; NOW THEREFORS, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment; AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful paper when called upon to do so, execute and deliver all papers that may be mecessary or desirable to perfect the title to this invention in said assignse, its successors and assigns, execute all divisional, continuation, and reissue applications make all rightful paths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns: AND, I/WE HEREBY authorize and request the attorneys I/we have empowered	herewith or on or filed an application for United Patent on, 19(Serial No	States Letters
address is 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, ar interest in and to this invention, the application for United States Letters Patent on thi invention and the Letters Patent to be issued upon this application; NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Fatent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment; AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns any facts known to me/us respecting this invention and testify in any legal proceedings, any all lawful paper when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful baths and generally do everything possible to aid assignee, its successors and assigns, to bothain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns. INTESTIMONY WHEREOF, I/We have hereunto set our hand(s). INTESTIMONY WHEREOF, I/We have hereunto set our hand(s	WHEREAS, KABUSHIKI KAISHA TOSHIBA	,
Chereinafter referred to as Assignee], is desirous of securing the entire right, title, an interest in and to this invention, the application for United States Letters Patent on thi invention and the Letters Patent to be issued upon this application; NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment; AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful paths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns. AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration number of said application when known. IN TESTIMONY WHEREOF, I/We have hereunto set our hand	a corporation of Japan , who	
which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all ressues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment; AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful paper when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful baths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns. AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No, filed) the filing date and application number of said application when known. IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s). 1. Pull Name of Sole or First Assignor: Assignor's Signature Date	(hereinafter referred to as Assignee), is desirous of securing the entire interest in and to this invention, the application for United States Let	e right, title, and
consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful paper when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful paths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns. AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No, filed) the filing date and application number of said application when known. IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s). 1. Full Name of Sole or First Assignor: Assignor's Signature Date Japan Japan Japan Japan Japan Japan Japan Salgnor's Signature Date Date Address Assignor's Signature	which from assignee is hereby acknowledged, I/WE, as assignor(s), have subtransferred, and set over, and do hereby sell, assign, transfer, and set assignee, its lawful successors and assigns, my/our entire right, title, and to this invention and this application, and all divisions, and continuand all Letters Patent of the United States which may be granted thereon thereof; and I/WE hereby authorize and request the Commissioner of Patent of the United States to issue all Letters Patent for this invention to as	old, assigned, over unto the and interest in nuations thereof, , and all reissues ts and Trademarks
Cocclaration and Power of Attorney in this application, to insert here in parentheses (Application No, filed) the filing date and application number of said application when known. IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s). 1. Full Name of Sole or First Assignor : Assignor's Signature	consideration, communicate with assignee, its successors and assigns, any me/us respecting this invention and testify in any legal proceeding, sign when called upon to do so, execute and deliver all papers that may be need desirable to perfect the title to this invention in said assignee, its states assigns, execute all divisional, continuation, and reissue applications, baths and generally do everything possible to aid assignee, its successor obtain and enforce proper patent protection for this invention in the United to understood that any expense incident to the execution of such paper	y facts known to n all lawful papers cessary or uccessors and make all rightful rs and assigns, to ited States, it
1. Full Name of Sole or First Assignor: Assignor's Signature Masaru ANDO: Masaru A	Declaration and Power of Attorney in this application, to insert here in (Application No, filed) the filing application number of said application when known.	parentheses
Address : Citizenship 5-12-15, Ofuna, Kamakura-shi, Kanagawa-ken, Japan : Japan 2. Full Name of Second Assignor : Assignor's Signature : Date : : : : : : : : : : : : : : : : : : :	1. Full Name of Sole or First Assignor : Assignor's Signature	
2. Full Name of Second Assignor : Assignor's Signature : Date : Citizenship : Call Name of Third Assignor : Assignor's Signature : Date : Date : Call Name of Third Assignor : Assignor's Signature : Date : Call Name of Third Assignor : Assignor's Signature : Date : Call Name of Third Assignor : Assignor's Signature : Date : Call Name of Third Assignor : Assignor's Signature : Date : Call Name of Third Assignor : Assignor's Signature : Date : Call Name of Third Assignor : Date : Call Name of Third Assignor : Assignor's Signature : Date : Call Name of Third Assignor : Assignor's Signature : Date : Call Name of Third Assignor : Call Name of Third Assigno	Address	: Citi žens hip
: 3. Full Name of Third Assignor : Assignor's Signature : Date : :		
	Address	: Citizenship
Address : Citizenship	3. Full Name of Third Assignor : Assignor's Signature	: Date
<u>:</u>	Address	: Citizenship

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. . WASHINGTON, D.C.

RECORDED: 08/26/1998

PATENT REEL: 9419 FRAME: 0781