FORM PTO-1595 (Rev. 6-93)

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05-09-2000 101351409

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

EET

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	Attorney Docket No.: 049343-5006	
To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.	atin: box assignment	
Name of conveying party(ies): Hiroaki ANDO	2. Name and address of receiving party(les):	
2. Taichi HOSHINO 3. Kengo ADACHI	7.555 2.55 2.55 2.55 2.55 2.55 2.55 2.55	
Additional name(s) of conveying party(ies) attached? Yes	Internal Address:	
7.05.00		
3. Nature of conveyance:	Street Address: 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan	
X Assignment Merger Security Agreement Change of Name Other	City: State: Zip:	
Execution Date: 1) February 21, 2000, 2) February 21, 2000 and February 25, 2000	Additional name(s) & address(es) attached? Yes _X_ No	
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application the execution date of the application is: 1) February 21, 2000, 2) February 21, 2000, 3) February 25, 2000		
09/557985		
A. Patent Application No.(s) B. Patent No.	.(8)	
Additional numbers attached:YesX_No		
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved:	
Name: Mr. Robert J. Gaybrick	7. Total fee (37 C.F.R §3.41):\$40.00	
Internal Address: Morgan, Lewis & Bockius LLP Customer No. 09629	Authorized to be charged to deposit account 50-0310	
Street Address: 1800 M Street, N.W. City: Washington State: D.C. Zip: 20036	Deposit account number: 50-0310 Attach duplicate of page if paying by deposit account	
9. Statement and Signature		
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.		
J. Michael Thesz	47) April 25, 2000	
Name of Person Signification Signatures Signatures	ure Date	
01 FC:381 40.00 P Total number	r of pages including cover sheet, attachments and documents:_7	

W401A/24/65.1

ASSIGNMENT

	r(s). [hereinafter referred to as Assignor(s)], b RTER CAPABLE OF SOFT START	
for which I/WE executed an application for United S States Letters Patent on, (Applicati	on No	filed an application for Office
WHEREAS, Rohm Co., Ltd. 21. Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, entire right, title, and interest in and to this invention, Patent to be issued upon this application;	, a corporation of <u>Japan</u> [apan (hereinafter referred to as As, the application for United States Letters Pate	, whose post office address is signee), is desirous of securing the int on this invention and the Letters
acknowledged, I/WE, as assignor(s), have sold, assignent the assignee, its lawful successors and assigns. It application, and all divisions, and continuations there all reissues thereof; and I/WE hereby authorize and reall Letters Patent for this invention to assignee, its successors and assigns, any facts known to ME/Us papers when called upon to do so, execute and delive in said assignee, its successors and assigns, execute a generally do everything possible to aid assignee, its sinvention in the L nited States, it being understood the assignee, its successors and assigns.	MY/OUR entire right, title, and interest in and cof, and all Letters Patent of the United States equest the Commissioner of Patents and Trad coessors and assigns, in accordance with the tall agree that I/WE will, without further considers all papers that may be necessary or desirable did in the successors and assigns, to obtain and enforce patents and enforce pate	sell, assign, transfer, and set over it to this invention and this which may be granted thereon, and emarks of the United States to issue erms of this Assignment: ration, communicate with assignee, legal proceeding, sign all lawful et operfect the title to this invention ations, make all rightful oaths and proper patent protection for this ich papers shall be borne by the
Full Name of Sole or First Assignor Hiroaki Ando	Assignor's Signature Lhi roalei Cindi	Date 21th Feb 2000
Address Rohm, Co. Ltd. 21, Saiin Mizozaki-cho, Ukyo-ku, Kyoto 615-8585		Citizenship Japan
Full Name of Second Assignor Taichi Hoshino	Assignor's Signature	Date
Address Rohm, Co. Ltd. 21, Saiin Mizozaki-cho, Ukyo-ku, Kyoto 615-8585	5 JAPAN	Citizenship Japan
Names of additional inventors attached [X] Yes	[]No	

Morgan, Lewis & Bockius LLP

1-10/11624.1

ATTORNEY DOCKET NO.: 049343-0000 ASSIGNMENT (U.S. Rights Only)

Full Name of Third Assignor Kengo Adachi	Assignor's Signature	Date
Address 4-10-4, Midorigaoka, Toyonaka-shi, Osaka So	50-0002 JAPAN	Citizenship Japan
Names of additional inventors attached [] Yes [X] No	

Morgan, Lewis & Bockius LLP

1-10/11624.1

ASSIGNMENT

	NVERTER CAPABLE OF SOFT	
r which I/WE executed an application for Unitates Letters Patent on, (Application for Unitates Letters Patent on	ited States Letters Patent concurrently her plication No	rewith; or filed an application for United
WHEREAS, Rohm Co., Ltd. 1. Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8 1. Saiin Mizosaki-cho, Ukyo-ku, Williami-cho, Ukyo-ku, Williami-c	, a corporation of	Japan , whose post office address is d to as Assignee), is desirous of securing the etters Patent on this invention and the Letters
knowledged, I/WE, as assignor(s), have sold, to the assignee, its lawful successors and assignees, and continuations and continuations.	assigned, transferred, and set over, and of igns, MY/OUR entire right, title, and intest thereof, and all Letters Patent of the United and request the Commissioner of Patents	rest in and to this invention and this ted States which may be granted thereon, and and Trademarks of the United States to issue
successors and assigns, any facts known to N pers when called upon to do so, execute and essignee, its successors and assigns, exe	ME/US respecting this invention and testi deliver all papers that may be necessary o	or desirable to perfect the title to this invention
merally do everything possible to aid assigned vention in the United States, it being understo signee, its successors and assigns. AND, I/WE HEREBY authorize and ra this application, to insert here in parentheses	e, its successors and assigns, to obtain and bod that any expense incident to the execute equest the attorneys I/WE have empower (Application No, file	i enforce proper patent protection for this ation of such papers shall be borne by the ed in the Declaration and Power of Attorney
merally do everything possible to aid assigned vention in the United States, it being underston signee, its successors and assigns. AND, I/WE HEREBY authorize and rethis application, to insert here in parentheses	e, its successors and assigns, to obtain and cod that any expense incident to the execute equest the attorneys I/WE have empower (Application No, file nown.	i enforce proper patent protection for this ation of such papers shall be borne by the ed in the Declaration and Power of Attorney
enerally do everything possible to aid assigned evention in the United States, it being understood in the United States, it being understood is gree, its successors and assigns. AND, I/WE HEREBY authorize and rest in the parentheses oplication number of said application when known in the properties of the parentheses oplication number of said application when known in the parentheses of the parentheses oplication number of said application when known in the parentheses of the parentheses of the parentheses of the parentheses of the parenthese of	e, its successors and assigns, to obtain and cod that any expense incident to the execute equest the attorneys I/WE have empower (Application No, file nown.	i enforce proper patent protection for this ation of such papers shall be borne by the ed in the Declaration and Power of Attorney
enerally do everything possible to aid assigned evention in the United States, it being understood in the United States, it being understood is genee, its successors and assigns. AND, I/WE HEREBY authorize and rest in application, to insert here in parentheses optication number of said application when known in TESTIMONY WHEREOF, I/WE has been also been been application. The said application when known in Testimony whereof, I/WE has been application and address and a said application.	e, its successors and assigns, to obtain and cod that any expense incident to the executequest the attorneys I/WE have empower (Application No	i enforce proper patent protection for this ation of such papers shall be borne by the ed in the Declaration and Power of Attorney d) the filing date and
enerally do everything possible to aid assigned evention in the United States, it being understood in the United States, it being understood is ignee, its successors and assigns. AND, I/WE HEREBY authorize and report in this application, to insert here in parentheses oplication number of said application when known in TESTIMONY WHEREOF, I/WE has been provided in the provided interprovided in the provided in the provided in the provided in th	e, its successors and assigns, to obtain and cod that any expense incident to the executequest the attorneys I/WE have empower (Application No	i enforce proper patent protection for this ation of such papers shall be borne by the ed in the Declaration and Power of Attorney d) the filing date and Date Citizenship Japan
enerally do everything possible to aid assigned vention in the United States, it being understood in the United States, it being understood in the United States, it being understood in the successors and assigns. AND, I/WE HEREBY authorize and rest this application, to insert here in parentheses application number of said application when known in TESTIMONY WHEREOF, I/WE have a successful the said application when known in TESTIMONY WHEREOF, I/WE have a successful the said application when known in TESTIMONY WHEREOF, I/WE have a successful the said assigner where the said assigner and t	e, its successors and assigns, to obtain and bod that any expense incident to the exect equest the attorneys I/WE have empower (Application No	i enforce proper patent protection for this ation of such papers shall be borne by the ed in the Declaration and Power of Attorney d) the filing date and Date Citizenship Japan

Morgan, Lewis & Bockius LLP

1-10/11624.1

ATTORNEY DOCKET NO.: 049343-0000

ASSIGNMENT (U.S. Rights Only)

Full Name of Third Assignor Kengo Adachi	Assignor's Signature	Date
Address 4-10-4, Midorigaoka, Toyonaka-shi, Osaka 560-0002 JAPAN		Citizenship Japan
Names of additional inventors attached [Yes [X] No	

Morgan, Lewis & Bockius LLP

1-10/11624.1

ASSIGNMENT

	WHEREAS I/We, the below named inventor(s). [hereinafter referred to as Assignor(s)], have made an invention entitled:			
A DC-DC CONVERTER CAPABLE OF SOFT STARTING				
or which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on, (Application No); and				
WHEREAS, Rohm Co., Ltd., a corporation of Japan 1. Salin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585, Japan (hereinafter referred to as Assembler right, title, and interest in and to this invention, the application for United States Letters Pater Pater to be issued upon this application;	whose post office address is ignee), is desirous of securing the at on this invention and the Letters			
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 into 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 oaths 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				
IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s). Full Name of Sole or First Assignor Assignor's Signature	Date			
Hiroaki Ando Address Rohm, Co. Ltd. 21, Saiin Mizozaki-cho, Ukyo-ku, Kyoto 615-8585 JAPAN	Citizenship Japan			
Full Name of Second Assignor Assignor's Signature Taichi Hoshino	Date			
Address Rohm, Co. Ltd.	Citizenship Japan			
21, Saiin Mizozaki-cho, Ukyo-ku, Kyoto 615-8585 JAPAN				

Morgan, Lewis & Bockius LLP

1-70/11624.1

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ATTORNEY DOCKET NO.: 049343-0000 ASSIGNMENT (U.S. Rights Only)

Full Name of Third Assignor Kengo Adachi	Assignor's Signature	Date 25 th field serve
Address 4-10-4, Midorigaoka, Toyonaka-shi, Osaka 560-0002 JAPAN		Citizenship Japan
Names of additional inventors attached [] Yes [X] No		

Morgan, Lewis & Bockius LLP

RECORDED: 04/25/2000

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