•	215214US3SDES/	10-3	30-200	1	
FORM PTO-1595 1-31-92	cml				U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
Fo the Honorable Cor	nmissioner of Patents and Tra	1018 ademarks. Pleas	890190 e record the	attached original docum	nents or copy thereof.
1. Name of conveying party(ies):			2. Name and address of receiving party(ies):		
Masaru ANDO Tetsujiro TSUNODA Kazunobu NISHITANI Yoshikatsu NAGASHIMA and Nobuhiro SHINGAI			Name: KABUSHIKI KAISHA TOSHIBA Address: 1-1, Shibaura 1-chome, Minato-ku Tokyo, Japan		
Additional name(s) of	f conveying party(ies) attache	d? □Yes ∎No			149
<ul> <li>3. Nature of Conveyance:</li> <li>▲ Assignment</li> <li>□ Merger</li> <li>□ Security Agreement</li> <li>□ Change of Name</li> <li>□ Other</li> </ul>					1 <b>0.65</b> 7
Execution Date: September 28, 27, 27, October 4 and September 27, 2001			Additional name(s) and address(es) attached? $\Box$ Yes $\blacksquare$ No		
4. Application numbe	r(s) or patent number(s):	29	114	198-7	
If this document is be	ing filed together with a new	application, the	execution da	ate of the application is	September 28, 27, 27, October 4 and September 27, 2001
A. Patent Application No.(s)			B. Patent N	lo.(s)	
	_	Additional m	l umbers attac	hed? □Yes ■No	
22850	5. Name and address of part correspondence concerning should be mailed:	y to whom document	6. Total ap	plications and patents i	nvolved: 1
				e (37 CFR 3.41): \$4 Enclosed Authorized to be charg	0.00 ged to deposit account
			8. Deposit account number: 15-0030 (Attach duplicate copy of this page if paying by deposit account)		
	D	O NOT USE TI			
9. Statement and sigr					ched copy is a true copy
of the original docu C. Irvin	nowledge and bellef, the foreg ment. McClelland erson Signing	,GV	<u>mmMč</u> Signature	Sulland _	10/26/01 Date
Registration Numbe	r: 21,124				
	Total number of page	es including this	s cover sheet	4	
		Do not detach	this portion		
	be recorded with required cov				
Mail documents to 1.0/c001 MAHELL 000 0.1504		ssioner of Pate Box Assig Washington,	nts and Tra gnments	demarks	

PATENT REEL: 012284 FRAME: 0245

## ASSIGNMENT

## (13D066-1)

In consideration of value received, we, having a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

PORTION OF POWER CONVERTER

sell and assign to

KABUSHIKI KAISHA TOSHIBA, a Japanese corporation, having a place of business at

1-1, Shibaura 1-chome. Minato-ku. Tokyo, Japan

its successors, and assigns or nominees, hereinafter referred to as "Assignee", our entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

. filed

(check one) [ ] executed concurrently herewith:

- executed on
- [ ] Application No.

and in and to all applications for patent and patents for invention, in all countries of the world, including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and we authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and we agree that on request and without further consideration, but at the expense of said Assignee, we will communicate to said Assignee or its representatives all facts known to us respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

We hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202

> PATENT REEL: 012284 FRAME: 0246

[1st Inventor]

Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan Residence Address: 5-12-15, Ofuna, Kamakura-shi, Kanagawa-ken, Japan Country of Citizenship: Japan

Date: September 28, 2001 Masaru Ando Masaru ANDO

[2nd Inventor]

Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan Residence Address: 3-2-15-103, Buzo, Saitama-shi, Saitama-ken, Japan Country of Citizenship: Japan

Date: September 27, 2001 Jetrupue Januar

Tetsuiiro TSUNODA

[3rd Inventor]

Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

Residence Address: 1-18-12. Edahigashi, Tsuduki-ku, Yokohama-shi, Kanagawa-ken, Japan Country of Citizenship: Japan

Date: September 277 2001 Kazunaki (Niskitan Kazunani NISHITANI

4th Inventor Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan Residence Address: 4-18-22, Shimokodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa-ken, Japan

Country of Citizenship: Japan

Date: 04 Oct. 2001. 4. hagnah

PATENT REEL: 012284 FRAME: 0247 [5th Inventor]

Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan Residence Address: 1-5-1-103. Yaguchi, Ota-ku, Tokyo, Japan Country of Citizenship: Japan

Date: September 27, 2001 Nobuhiro Shingar

Nobuhiro SHINGAI

6th Inventor Post Office Address: **Residence Address**: Country of Citizenship:

Date:

After recording please return to:

Oblon, Spivak. McClelland, Maier & Neustadt. P.C.

Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202, U. S. A.