10/471174

DT15 Rec'd PCT/PTO 0 9 SEP 2003 Atty. Docket No.: 0054-0278P Page 1 of 1

. 01-22-2004 o	ORM COVER SHEET
-	atent and Trademark Office: inal documents or copy thereof.
102651952 1. Name of conveying party(less): [FAMILY NAME (ALL CAPS), Given Name] MIYAGUCHI, Kenichi HIEDA, Morishige KASAHARA, Michiaki TAKAGI, Tadashi HATAMOTO, Mikio	2. Name and address of receiving party(ies) Name: MITSUBISHI DENKI KABUSHIKI KAISHA Internal Address: Street Address: 2-3, Marunouchi 2-chome, Chiyoda-ku City: Tokyo State: ZIP: Country: JAPAN Postal Code: 100-8310 Additional name(s) & address(es) attached? YES NO
Additional name(s) of conveying party(ies) attached? YES NO Nature of conveyance: Assignment Merger Security Agreement Change of Name Other: Execution Date: August 21, 2003, August 21, 2003, August 22, 2003, August 21, 2003 and August 21, 2003, respectively	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the August 21, 2003, August 21, 2003, August 22, 2003, August 2	
A. Patent Application No(s).	B. Patent No.(s).
New	Lade Targe MAIO
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total No. of applications/patents involved: One (1)
Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP Street Address: P.O. BOX 747 City: FALLS CHURCH State: VA ZIP: 22040-0747	 7. Total fee (37 C.F.R. § 3.41): \$40.00 Enclosed Authorized to be charged to deposit account, if no fee attached.
Country: USA	8. Deposit account number: 02-2448 (Attach triplicate copy of this page
40,00 00	if paying by deposit account)
9. Statement and signature. Michael K. Mutter, #29,680	September 9, 2003
Name of Person Signing/Reg. No.	Signature Date
Total number of pages including cover s	heet, attachments, and document: Two (2)

MKM/cqc

PATENT REEL: 014896 FRAME: 0414

ASSIGNMENT	
In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Kenichi MIYAGUCHI, Morishige HIEDA, Michiaki KASAHARA, Tadashi TAKAGI and Mikio HATAMOTO hereby sells, assigns and transfers to	
MITSUBISHI DENKI KABUSHIKI KAISHA of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN	
(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:	
the application for United States Letters Patent entitled PHASE SHIFT CIRCUIT AND PHASE SHIFTER which was executed by the undersigned on AUA 21, 2003, Aug 21, 2003, Aug 22, or was filed on September 9, 2003 and accorded Serial No. NEW (hereinafter called the Application); respectively.	- 20 Gi
(ii) any and all inventions and improvements which are described in the Application;	•
(iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent);	
(iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and	
Property. Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application. The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee. Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.	
(Kenichi MIYAGUCHI) Kenichi Miyasachi August 2/ 2003	
(Kenichi MIYAGUCHI) Kenichi Miyaguchi Ungast 21, 2005 (Morishige HIEDA) Morishige Keecla Digast 21, 2003	
(Michiaki KASAHARA) Michiahi Kasahara Ang. 22. 2003	_
(Tadashi TAKAGI) Jodushi Jakogi Aug. 21, 2003	
(Mikio HATAMOTO) Mikio Hatamoto Aug. 21, 2003	_
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RECORDED: 09/09/2003

PATENT REEL: 014896 FRAME: 0415