FORM PTO-1595 (modified)		_		5551551515	
	10-20	-2005 .		DEPARTMENT O	F COMMERCE
(Rev 6-93) <b>REC</b>	10-20		HEET	Patent a	and Trademark Office
10/14/5					
10/14/					
To the Director of the United States Pate	en +004(		ached original do	cuments or copie	es thereof
	10310	70910			33 thereor.
<ol> <li>Name of conveying party(ies):</li> </ol>		<ol><li>Name and address</li></ol>	ess of receiving	g party(ies):	_
					₽~, 🛁
Muneo KODAIRA					<u>−</u> 2% ≡
Shingo WATANABE					s 4
Gen SASAKI		HITACHI CA	RIFITD		⊃.6 🚟
Yasuyuki ITO		6-1, Otemacl		Chivada ku	₩.
_			•	oniyoda-ku	ğ.− <b>=</b>
Katsumi NOMURA		Tokyo, Japa	ın		27
					_ <del>-  </del>
					ì
					ŀ
Additional conveying party(ies)	NO				
Nature of conveyance:					1
ASSIGNMENT					
Execution Date:					
September 29, 20		Additional name(s)	& address(es)	attached?	NO
4. Application number(s) or patent num	ıber(s):				1
If this is being filed together with a non-		cution date of the app		Septembei	r 29, 2005
	Additional number	rs attached? <b>NO</b>			
<ol><li>Name and address of party to whom concerning document should be mail</li></ol>		Total number of applications/patents involved:			
Glenn Law		7. Total fee (37 C.I	F.R. § 3.41):	\$40.	00
FOLEY & LARDNER LLP		X Check Enclos	sed		
			,,,,		
Washington Harbour		Charge to dep	posit account		İ
3000 K Street, N.W., Suite				10.0744	
Washington, D.C. 20007-5	5143	8. Deposit account	t number:	19-0741	
	DO NOT USE	THIS SPACE			
9. Statement and signature:  To the best of my knowledge a copy of the original document. The Cobe required in this matter to the above-	mmissioner is hereb(/a	ն <b>փ</b> horized to charge a			
Glenn Law		V 5 3437		October 14	, 2005
Name of person signing		Signature	V	С	Date
	Total number of pag	es including cover sl	heet, attachme	nts, and docum	nent: 3

10/18/2005 FFANAIA2 00000059 11249452

01 FC:8021

40 00 DD

PATENT REEL: 017095 FRAME: 0096

## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

HITACHI CABLE, LTD. 6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, Japan

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in

COPPER FOIL FOR PRINTED CIRCUIT BOARD, METHOD FOR FABRICATING SAME, AND TRIVALENT CHROMIUM CONVERSION TREATMENT SOLUTION USED FOR FABRICATING SAME

as set forth in this United States Patent Application

X	executed concurrently herewith		
	executed on		_
	Serial No	filed	

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models,

> PATENT REEL: 017095 FRAME: 0097

The undersigned hereby grant the firm of FOLEY & LARDNER the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

<del>,</del>	<del></del>					
NAMES AND SIGNATURES OF INVENTORS						
Name: Muneo KODAIRA	Signature: Hunco Hodaira	Date:September 29, 2005				
Name: Shingo WATANABE	Signature: Shings Waranuse	Date:September 29, 2005				
Name: Gen SASAKI	Signature: Con Sasahi	Date:September 29, 2005				
Name: Yasuyuki ITO	Signature: Jasuyki Sto	Date:September 29, 2005				
Name: Katsumi NOMURA	Signature Sum Comme	Date:September 29, 2005				
Name:	Signature:	Date:				
Name:	Signature:	Date:				
Name:	Signature:	Date:				
NAMES AND SIGNATURES OF WITNESSES						
Name: Masaaki KATO	Signature: M. Kato	Date:September 29, 2005				
Name:	Signature:	Date:				

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

**RECORDED: 10/14/2005**