12-19-	2001
Form PTO-1595 (Rev. 03/01)	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
OMB No. 0651-0027 (exp. 5/31/2002) Tab settings ⇒ ⇒ ⇒ ▼ ▼ 10,1919	
To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): Daniel H. Chang	2. Name and address of receiving party(ies) Name: Pacific Wave Industries, Inc.
Talal Azfar Harold Fetterman 12/05/01	Internal Address: 10390 Santa Monica Blvd.,
Joseph Michael Additional name(s) of conveying party(ies) attached? 🕞 Yes 🖏 No	Suite 100
3. Nature of conveyance:	Los Angeles, CA 90025
Assignment Greement Green Name	Street Address: _10390 Santa Monica Blvd.,
	Suite 100
Other	City: Los Angeles State: CA Zip: 90025
Execution Date: December 4, 2001	Additional name(s) & address(es) attached? 🎴 Yes 🗱 No
4. Application number(s) or patent number(s):	10101111
	cation, the execution date of the application is: $\frac{12}{4}/2001$
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers at	ached? 🗋 Yes 🗱 No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Benman & Collins	7. Total fee (37 CFR 3.41)\$_40.00
Internal Address: 2049 Century Park East	Enclosed
Suite 2740	Authorized to be charged to deposit account
Los Angeles, CA 90067	8. Deposit account number:
Street Address: 2049 Century Park East	
Suite 2740	(Attach duplicate copy of this page if paying by deposit account)
City: Los Angeles State: CA Zip:90067	
DO NOT US	E THIS SPACE
9. Statement and signature.	the first and correct and any attached CODV
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.	12/05/01
William J. Benman	Signature Date
Name of Person Signing	up about attachments and documents:
Total number of pages including co	ver sheet, attachments, and documents: 5
Commissioner of Patents	& Trademarks, Box Assignments Ion, D.C. 20231
	PATENT

REEL: 012366 FRAME: 0549

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ASSIGNMENT OF APPLICATION		Docket Number (Optional) PW-2
Whereas, I, Daniel H. Chang	of La Crescenta, CA	hereaft
referred to as applicant, have invented ce		
ACTIVE POLYMER-SILICA HYBRID, SINGLE CO		
WDM PACKET ROUTER/TDM CONVERTER AND		
for which an application for a Unit Application Number/	ed States Patent was filed on	7
for which an application for a Unit	ed States Patent was executed o	on <u>12/4/01</u> , and
Whereas, PACIFIC WAVE INDUSTRIES	, INC. of Los Angeles, CA	herein referred
"assignee" whose mailing address is $_103^\circ$	90 Santa Monica Blvd., Suite 100, I	Los Angeles CA 90025 is de-
sirous of acquiring the entire right, title an	id interest in the same;	
Now, therefore, in consideration of the su	m of ^{One} dollars (\$ 1.00), the receipt whereof is a
knowledged, and other good and valuable		
-		
and transfer unto said assignee the full ar		
entire right, title and interest in and to any		
I hereby authorize and request the Comr		
Patent to said assignee, of the entire right		
and for the use and behoof of his legal rep	presentatives, to the full end of th	e term for which said Patent ma
be granted, as fully and entirely as the sa		
been made.	day of	, 20 <u>01</u> ,
		·
at Los Angeles, Californi		IN
	Alle	Tell
State of) SS: County of) Before me personally appeared said and acknowledged the foregoing instrume day of, 20	ent to be his free act and deed this	 ✓ (Signaturé) S

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents and Trademarks, Washington, DC 20231.

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ASSIGNMENT OF APPLICATION		Docket Number (Optional) PW-2
Whereas, I, Talal Azfar	of Los Angeles, CA	, hereaf
referred to as applicant, have invented c		
ACTIVE POLYMER-SILICA HYBRID, SINGLE CO		
WDM PACKET ROUTER/TDM CONVERTER AN	D METHODS OF MAKING SAME	
for which an application for a Uni Application Number/	ted States Patent was filed on	J
for which an application for a Un	ited States Patent was executed	on <u>12/4/01</u> , and
Whereas, PACIFIC WAVE INDUSTRIES	S, INC. of Los Angeles, CA	herein referred
"assignee" whose mailing address is 103	390 Santa Monica Blvd., Suite 100,	Los Angeles CA 90025 is de-
sirous of acquiring the entire right, title a	nd interest in the same;	
Now, therefore, in consideration of the su	Im of One dollars ($\$^{1.00}$), the receipt whereof is a
knowledged, and other good and valuable		
and transfer unto said assignee the full a		
entire right, title and interest in and to any		
I hereby authorize and request the Com		
Patent to said assignee, of the entire righ		
and for the use and behoof of his legal re	presentatives, to the full end of th	ne term for which said Patent ma
be granted, as fully and entirely as the sa		
-		
been made. Executed this <u>Fourth</u>	December	, 20 <u>01</u> ,
at Los Angeles, Cali	Talu	AA
		(Signature)
State of SS: County of) Before me personally appeared said and acknowledged the foregoing instrum day of, 20	ent to be his free act and deed thi	S

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PATENT REEL: 012366 FRAME: 0551

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ASSIGNMENT OF A	APPLICATION	Docket Number (Optional) PW-2
Whereas, I, Harold Fetterman	of Santa Monica, CA	, hereafter
referred to as applicant, have invented ce		
ACTIVE POLYMER-SILICA HYBRID, SINGLE CO		
WDM PACKET ROUTER/TDM CONVERTER AND	D METHODS OF MAKING SAME	
for which an application for a Unit Application Number/		,
for which an application for a Unit	ted States Patent was executed	on <u>12/4/01</u> , and
Whereas, PACIFIC WAVE INDUSTRIES	, INC. of Los Angeles, CA	herein referred to
"assignee" whose mailing address is $_103^{\circ}$		
sirous of acquiring the entire right, title an		
Now, therefore, in consideration of the su	m of \underline{One} dollars (\$_1.00), the receipt whereof is ac-
knowledged, and other good and valuable	e consideration, I, the applicant,	by these presents do sell, assign
and transfer unto said assignee the full ar	nd exclusive right to the said inve	ention in the United States and the
entire right, title and interest in and to any	and all Patents which may be gra	anted therefor in the United States,
I hereby authorize and request the Comr		
Patent to said assignee, of the entire righ		
and for the use and behoof of his legal re	presentatives, to the full end of t	he term for which said Patent may
be granted, as fully and entirely as the sa	me would have been held by me	e had this assignment and sale not
Executed this foruth	day of	, 20_01,
at Los Angeles, Ca	alifornia	- Dad
at	mold	Pitetteny
		(Signature)
State of) SS:	ţ.	
County of) Before me personally appeared said and acknowledged the foregoing instrum	ont to be his free act and deed th	lis
and acknowledged the foregoing instrum day of, 20		
		(Notary Public)

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents and Trademarks, Washington, DC 20231.

PATENT REEL: 012366 FRAME: 0552

PTO/SB/15 (08-00 Approved for use through 05/31/2002. OMB 0651-0027 U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Docket Number (Optional) ASSIGNMENT OF APPLICATION **PW-2** Whereas, I, Joseph Michael _____ of _____ of _____ _____, hereafter referred to as applicant, have invented certain new and useful improvements in ULTRA-HIGH SPEED, ACTIVE POLYMER-SILICA HYBRID, SINGLE CONTROL VOLTAGE MMI-BASED 1-BY-N PACKET SWITCH AND WG-BASED WDM PACKET ROUTER/TDM CONVERTER AND METHODS OF MAKING SAME for which an application for a United States Patent was filed on _____ Application Number _____/____. for which an application for a United States Patent was executed on <u>12/4/01</u>, and Whereas, PACIFIC WAVE INDUSTRIES, INC. of Los Angeles, CA herein referred to

sirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of <u>One</u> dollars (<u>\$</u><u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not

11th days	of, 20_01,
at Los Angeles, California State of) SS: County of) Before me personally appeared said and acknowledged the foregoing instrument to be day of, 20	(Signature)
Seal	(Notary Public)

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RECORDED: 12/05/2001

heen made.

PATENT REEL: 012366 FRAME: 0553