	07-19-2000 U.S. DEPARTMENT OF COMMERCE
FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
Tab settings ⇔ ⇔ ♥ ▼	
To the Honorable Commissioner of Patent	101407884ached original documents or copy thereof.
1 Name of conveying party(ies):	2. Name and address of receiving party(ies):
Ryan M. Desrosiers	Name: TRW Inc.
(o. 14.00) Craig A. Hornbuckle	22.00
Harvey L. Berger	Internal Address: <u>Law Dept.</u>
Additional name(s) of conveying party(ies) attached?	X No
	40
3. Nature of conveyance:	
Assignment	Street Address: <u>Bldg. E2/6051</u>
☐ Security Agreement ☐ Change of	of Name One Space Park
Other	City: Redondo Beach State: CA ZIP: 90278
Execution Date: June 8, 2000	Additional name(s) & address(es) attached?
091593328 Addition	onal numbers attached? Yes X No
5. Name and address of party to whom correspondence on concerning document should be mailed:	ndence 6. Total number of applications and patents involved:
Name: Patent Counsel	7. Total fee (37 CFR 3.41)
Internal Address: TRW Inc.	7. Total 100 (07 01 K 0. 11)
Law Dept.	Enclosed
Bldg. E2/6051	X Authorized to be charged to deposit account
Street Address: One Space Park	8. Deposit account number:
	20-1515
City: Redondo Beach State: CA ZI	p: 90278 (Attach duplicate copy of this page if paying by deposit account)
77/14/2000 PHBUTEN 00000340 201313 09393328	DO NOT USE THIS SPACE
1 FC:361 40:00 CH	
9. Statement and signature.	
To the best of my knowledge and belief, the fore the original document.	egoing information is true and correct and any attached copy is a true copy of
· ·	Muhuls Yathe (1/3/20
Michael S. Yatsko Name of Person Signing	Algnature Date
	ages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

ASSIGNMENT

hereby acknowledged, we Ryan M	ration, the adequacy and receipt of which are M. Desrosiers, Craig A. Hornbuckle, and of Tigard, Oregon; Torrance, California;
California, an Ohio corporation right, title and interest in an	RW Inc., One Space Park, Redondo Beach, n, its successors and assigns, the entire nd to the improvements in EFFICIENT PRE-
	which has been invented by us, as described
in the application for United S on June 8, 2000 ,	States Patent which we executed respectively, June 13, 2000
reissues, continuations, and ex priority date of the first file authorize and request any offic issue any patent on said improv Inc., or its successors or assi further consideration, but at t to TRW Inc. or its representati respecting said improvements an lawful papers, execute all divi applications, make all rightful	tensions thereof, and the right to claim the ed application in the United States, and cial whose duty it is to issue patents, to rements or resulting therefrom to said TRW lgns, and agree that on request and without the expense of TRW Inc., we will communicate lives or nominees any facts known to us and testify in any legal proceeding, sign all sional, continuing, and reissue to aths, and generally do everything possibles, assigns and nominees to obtain and enforces.
6/8/00, 2000	Inventor: Ryan M. Desrosiers
, 2000	Inventor: Craig A. Hornbuckle
, 2000	Inventor: Harvey L. Berger

ASSIGNMENT

For valuable considera	ation, the a	dequacy and receipt of which are
hereby acknowledged, we <u>Ryan M.</u>	<u>. Desrosiers</u>	<u>, Craiq A. Hornb</u> uckle, and
Harvey L. Berger respectively,	of <u>Tigard</u> ,	Oregon; Torrance, California;
and Redondo Beach, California		
do hereby sell and assign to TRV	W Inc., One	Space Park, Redondo Beach.
California, an Ohio corporation,		
right, title and interest in and		
DISTORTED 12/4 QAM MODULATOR wh		
in the application for United St	tates Patent	which we executed respectively,
on <u>June 8, 2000</u> ,	June 13, 200	00, and
June 9, 2000	_, and any ar	nd all applications for patent
and patents therefore in any and		
reissues, continuations, and ext		
priority date of the first filed	d application	n in the United States, and
authorize and request any offici	ial whose dut	ty it is to issue patents, to
issue any patent on said improve	ements or res	sulting therefrom to said TRW
Inc., or its successors or assign	gns, and agre	ee that on request and without
further consideration, but at th	he expense of	f TRW Inc., we will communicate
to TRW Inc. or its representative	ves or nomina	ees any facts known to us
respecting said improvements and	d testify in	any legal proceeding, sign all
lawful papers, execute all divis		
applications, make all rightful	oaths, and	generally do everything possible
to aid TRW Inc., its successors,		
proper patent protection for sai		
0000	T	
, 2000	Inventor:	Ryan M. Desrosiers
		Ayan M. Desiosiers
June 13 2000	Inventor:	Kal had Man
June 13, 2000	invencer.	Craig X. Hornbuckle
	Inventor:	Means h Lego
/		Harvey 1. Berger
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		1

STATE OF OREGON	
COUNTY OF WASHINGTON)) SS
personally appeared Ryan M. I personally known to me -or- satisfactory evidence to be the perwithin instrument and acknowledged his/her authorized capacity, and the same statement and acknowledged his/her authorized capacity, and the same statement and acknowledged his/her authorized capacity, and the same statement and acknowledged his/her authorized capacity, and the same statement and sa	x proved to me on the basis of rson whose name is subscribed to the to me the he/she executed the same in
OFFICIAL SEAL DAVID B MENDY NOTARY PUBLIC-OREGON	WITNESS my hand and official seal.
COMMISSION NO. 311056 MY COMMISSION EXPIRES MAR 29, 2002	Notary Public
(SEAL)	Notary rubite
STATE OF CALIFORNIA) COUNTY OF LOS ANGELES))) ss) re me,
On before personally appeared Craig Personally known to me -or-	A. Hornbuckle proved to me on the basis of
satisfactory evidence to be the per within instrument and acknowledged his/her authorized capacity, and the	rson whose name is subscribed to the to me the he/she executed the same in
Ţ	WITNESS my hand and official seal.
,	Notary Public
(SEAL)	MOCALY PUBLIC

STATE OF OREGON)			
COUNTY OF) ss)			
satisfactory evidence to be the pewithin instrument and acknowledged his/her authorized capacity, and	proved to me on the basis of erson whose name is subscribed to the d to me the he/she executed the same in			
	WITNESS my hand and official seal.			
(SEAL)	Notary Public			
STATE OF CALIFORNIA)			
county of los angeles on June 13,2000 before	ore me, Lorna L. Schott			
personally appeared Craig A. Hornbuckle personally known to me -or proved to me on the basis of				
satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me the newshe executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.				
LORNA L. SCHOTT Commission # 1236694 Natary Public - California Los Angeles County My Cornm. Expires Oct 27, 2003	WITNESS my hand and official seal. Notary Public			
(SEAL)	***************************************			

Docket No. 12-1081

(SEAL)

STATE OF CALIFORNIA)	
COUNTY OF LOS ANGELES) ss)	
On <u>June 9, 2000</u> personally appeared		
personally known to		
within instrument and acknowis. A character with the comments of the comments	owledged to me they (his and that by (his	se name is subscribed to the ne he he same in he he same in he same in he seems acted, behalf of which the person acted,
LYNN E. CABILES Commission # 1260124 Notary Public - California Los Angeles County My Comm. Expires Apr 9, 200		ny hand and official seal.
My Committee	Notary Pi	n & Cabiles

RECORDED: 06/14/2000