FORM PTO-1595 11 - 20 -	2000 ET U.S. DEPARTMENT OF COMMERCE			
(Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) Tab settings □ □ □ □	<u>lo·3</u> ,·ω			
ab settings — — — •				
To the Honorable Commissioner of Pa 101520)885 <u>attached original documents or copy thereof.</u> 2. Name and address of receiving party(ies):			
1. Name of conveying party(ies):	2. Name and address of receiving party(les).			
Dean Tran	Name: TRW Inc.			
George J. Vendura, Jr.	Internal Address: Law Dept			
William L. Jones	Internal Address: <u>Law Dept.</u>			
Additional name(s) of conveying party(ies) attached? X Yes No				
3. Nature of conveyance:	-			
Assignment	Street Address: Bldg. E2/6051			
☐ Security Agreement ☐ Change of Name	One Space Park			
☐ Other	City: Redondo Beach State: CA ZIP: 90278			
Execution Date: July 17, 2000	Additional name(s) & address(es) attached?			
If this document is being filed together with a new application A. Patent Application No.(s) 09/624,815 Additional numbers atta	B. Patent No.(s)			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:			
Name: Patent Counsel	7. Total fee (37 CFR 3.41) \$ 40.00			
Internal Address: TRW Inc.	☐ Enclosed			
	—			
Law Dept.	X Authorized to be charged to deposit account			
Bldg. E2/6051				
Street Address: One Space Park	8. Deposit account number:			
	20-1515			
City: Redondo Beach State: CA 90278	(Attach duplicate copy of this page if paying by deposit account)			
DO NO	T USE THIS SPACE			
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of Date				
Michael S. Yatsko Name of Person Signing	Signature 6			

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

FORM PTO-1595	RECORDATION FORM COVER SHEET U.S.	DEPARTMENT OF COMMERCE
(Rev. 6-93)	PATENTS ONLY	Patent and Trademark Office
OMB No. 0651-0011 (e		
1. Name of conve	eying party(ies):	
Edwa	ard A. Rezek	
<u> </u>	III / I. Rezer	
Addi	tional name(s) of conveying party(ies) attached?	No X
7 1441	tronal name(s) of conveying party(100) attached.	
2. Name and address	ss of receiving party(ies):	
Name:		
Internal Address		
Street Address:		
City:	State: ZIP:	
Internal Address	:	
Street Address:		
	State: ZIP:	
		X
Additio	nal name(s) & address(es) attached? Yes \ No	
4 Application num	aber(s) or patent number(s):	
4. Approaction	1' diam the execution date of	the application is: July 17, 2000
If this document is	s being filed together with a new application, the execution date of	tine approance.
	A. Patent Application No.(s) B. Pate	nt No.(s)
	A. Latent Application 1997	
		'
_		
1		
_	No	X
	Additional numbers attached? Yes \ No	

PATENT REEL: 011243 FRAME: 0487

ASSIGNMENT

	ration, the adequacy and receipt of which ar
hereby acknowledged, we <u>Dean</u>	(NMI) Tran, George J. Vendura, Jr., William espectively, of <u>Westminster, California;</u>
Rossmoor, California; Inglewood	<u>Resembled Forming California</u> do
	nc., One Space Park, Redondo Beach,
California, an Ohio corporation	, its successors and assigns, the entire
right, title and interest in an	d to the improvements in SOLAR CELL HAVING
	ITIONING FROM SMALL TO LARGE BAND GAPS AND
	which has been invented by us, as describe
on $\frac{1}{2}$ July 17, 2000 for United S	tates Patent which we executed respectively ctober 20, 2000 July 17, 2000 an
July 17 2000	, and any and all applications for patent
and natents theretore in any an	d all countries, including all divisions, tensions thereof, and the right to claim the
priority data of the first file	d application in the United States, and
authorize and request any offic	ial whose duty it is to issue patents, to
: an gold improve	ements or resulting therefrom to Salu itw
	and and agree that on request and without
further consideration, but at t	he expense of TRW Inc., we will communicate
l l l l l l l l l l l l l l l l l l l	IN EDGLIIV III AIIV TEGAT DEGEGGGETIAN D.
respecting said improvements an	sional, continuing, and reissue
applications, make all rightful	oaths, and generally do everything possible assigns and nominees to obtain and enforce
to aid TRW Inc., its successors	oaths, and generally do every and enforces, assigns and nominees to obtain and enforces did invention in all countries.
to aid TRW Inc., its successors proper patent protection for sa	it in the contract of the cont
. .	Tag. Dach
2000	Inventor:
17 July , 2000	Inventor: Tran (NMI) Tran
,	
, 2000	Inventor: George J. Vendura, Jr.
	(1) \mathcal{M} \mathcal{A} \mathcal{A}
2000	Inventor: William L. Jones
17 July , 2000	
	Inventor: Clward A. Rezek
17 July, 2000	Edward A. Rezek

PATENT REEL: 011243 FRAME: 0488

ASSIGNMENT

hereby acknowledged, we <u>Death</u> L. Jones and Edward A. Rezek Rossmoor, California; Inglewohereby sell and assign to TRV California, an Ohio corporatinght, title and interest in	deration, the adequacy and receipt of which are an (NMI) Tran, George J. Vendura, Jr., William respectively, of Westminster, California; ood, California; and Torrance, California do Inc., One Space Park, Redondo Beach, ion, its successors and assigns, the entire and to the improvements in SOLAR CELL HAVING ANSITIONING FROM SMALL TO LARGE BAND GAPS AND
METHOD OF MANUFACTURE THEREFO	OR which has been invented by us, as described
in the application for United on	d States Patent which we executed respectively,,and, and any and all applications for patent
reissues, continuations, and priority date of the first frauthorize and request any offissue any patent on said important for its successors or as further consideration, but at to TRW Inc. or its representant respecting said improvements lawful papers, execute all diapplications, make all rights	and all countries, including all divisions, extensions thereof, and the right to claim the iled application in the United States, and ficial whose duty it is to issue patents, to rovements or resulting therefrom to said TRW signs, and agree that on request and without the expense of TRW Inc., we will communicate atives or nominees any facts known to us and testify in any legal proceeding, sign all ivisional, continuing, and reissue ful oaths, and generally do everything possible ors, assigns and nominees to obtain and enforce said invention in all countries.
, 2000	Inventor:
October 20, 2000	Inventor: June Wendura, Jr.
, 2000	Inventor: William L. Jones
, 2000	Inventor:Edward A. Rezek

PATENT **REEL: 011243 FRAME: 0489**

STATE OF CALIFORNIA)) ss		
COUNTY OF LOS ANGELES)	/) I	Colas H
on JUM 17,2000 b	efore me,	Corna L	Schott
personally appeared Will personally known to me -o	<u>iam L. Johes</u> r - <u> </u>	d to me on th	e basis of
satisfactory evidence to be the within instrument and acknowled his her authorized capacity, an instrument the person, or the e executed the instrument.	person whose ged to me the d that by his	name is subs he she execu her signatur	cribed to the ted the same in e on the
LORNA L SCHOIT Commission # 1236694 Notary Public - California Los Angeles County My Comm. Expires Oct 27, 2003	Low	hand and off	icial seal.
(SEAL)	Motary Pub	olic -	
STATE OF CALIFORNIA)) ss		
COUNTY OF LOS ANGELES)	Lornal	Shatel
personally appeared Edwa personally known to me of satisfactory evidence to be the within instrument and acknowled his her authorized capacity, and instrument the person, or the executed the instrument.	rd A. Rezek rprove person whose ged to me the d that by his entity upon be	ed to me on the name is subset the subset of the signature half of which	e basis of cribed to the ted the same in e on the the person acted,
LORNA L SCHOTT Commission # 1236694 Notary Public - California Los Angeles County My Comm. Expires Oct 27, 2003	WITNESS MY Notary Pul	hand and off	ficial seal.
(SEAL)			

PATENT

REEL: 011243 FRAME: 0490

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)
on July 7, 2000 before me, Lornal Schott
personally appeared Dean (NMI) Tran 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 he she 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 Notary Public - California Los Angeles County My Comm. Expires Oct 27, 2003 WITNESS my hand and official seal.
Notary Public (SEAL)
STATE OF CALIFORNIA)) COUNTY OF LOS ANGELES) before me,
OII I Wandura Ir
personally known to me -or proved to me subscribed to the satisfactory evidence to be the person whose name is subscribed to the satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me the he/she executed the same in his/her authorized capacity, and that by his/her signature on the 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.
WITNESS my hand and official seal.
Notary Public
(SEAL)

PATENT
RECORDED: 10/31/2000 REEL: 011243 FRAME: 0491