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Name (line 2) 2900 Semico	nductor Drive			domiciled in the United States, an appointment of a domestic
Address (line 1) M/S D3-579				representative is attached. (Designation must be a
Address (line 2)				separate document from Assignment.)
Address (line 3) Santa Clara		A	95	051 1/339192
Domestic Representative		State/Cour	try	Zip Code
Name				
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FORM PTO-1619B Expires 06/30/99 CMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Address	Area Code and Telephone Numbe	r 408-667 1289
Name Jurgen Vollrath		
Address (line 1) 588 Sutter Street # 531		
Address (line 2)		
Address (line 3) San Francisco, CA		
Address (line 4) 94102		
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To the best of my knowledge and bell attached copy is a true copy of the or indicated herein.	· • •	-
JURGEN VOLLRATH       Name of Person Signing	9. Wollow	1/9/03
Name of Person Signing	Signature	Date

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PATENT REEL: 013664 FRAME: 0159

FORM PTO-1619C Expires 06/30/99 OMB 0651-0027	RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY	U.S. Department of Commerce Patent and Trademark Office PATENT
Conveying Party(ies)	Mark if additional names of conveying parties attached	Execution Date
Enter additional Conveying Partie		Month Day Year U
Name (line 1) Marcel ter Beel	<u> </u>	1/5/02
Name (line 2)		Execution Date Month Day Year
Name (line 1) Peter J. Hopper		11/5/02
Name (line 2)		Execution Date Month Day Year
Name (line 1)		
Name (line 2)		
Receiving Party(ies)	Mark if additional names of receiving par	ties attached
Enter additional Receiving Party		
Name (line 1)		If document to be recorded is an assignment and the receiving party is not
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Address (line 1)	]	is attached. (Designation must be a separate
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Address (line 2)		Assignment.)
Address (line 3)	City State/Country Zip	p Code
Application Number(s) o		d
	on Number or the Patent Number (DO NOT ENTER BOTH numbers for the	
Patent Applicat	ion Number(s) Patent Num	nber(s)
	] L] L	

PATENT REEL: 013664 FRAME: 0160

Whereas, I, Vladislav Vahschenko of National Semicor	nductor Corp, hereafte
referred to as applicant, have invented certain new and useful improvement ESD Protection Cluster and Method of Providing Multi-Port ESD Protection	ts in
for which an application for a United States Patent was filed on Application Number/	
X for which an application for a United States Patent was executed on	, and
Whereas, National Semiconductorof	beroin referred t
2900 Semiconductor Dr., Mail Stop D3-579	
"assignee" whose mailing address is <u>95051-8090</u>	is de-
sirous of acquiring the entire right, title and interest in the same;	
Now, therefore, in consideration of the sum of ten dollars ( $10.00$	), the receipt whereof is ac
knowledged, and other good and valuable consideration, I, the applicant, by	r these presents do sell, assigi
and transfer unto said assignee the full and exclusive right to the said invent	ion in the United States and th
entire right, title and interest in and to any and all Patents which may be grant	ted therefor in the United States
I hereby authorize and request the Commissioner of Patents and Tradema	urks to issue said United State
Patent to said assignee, of the entire right, title, and interest in and to the sai	me, for his sole use and behoo
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 ha	ad this assignment and sale no
been made.	
	20 02
Executed this <u>12th</u> day of <u>November</u> at National Servic conductor	, 20
at network source mm-	
State of California ss:	(Signature)
County of Sana Clara (1) distant 104	halianter
Before me personally appeared said <u>UISUUSUU</u> UW and acknowledged the foregoing instrument to be his free act and deed this _	12 14
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Seal LIZCE SU	(Notary Public)
LIZA SMOLIN	
on the amount of time of the complete mis bound by sent to the Chief Inf shington, DC 20231. Do Watter FEES On COMPLEX DEFORMS 20 THIS ADDRESS. marks, Washington, DC 2024 And Stanta Clara County My Comm. Expires Jun 12, 2003	ng upon the needs of the Individual ca ormation Officer, U.S. Patent and Tra SEND TO: Assistant Commissioner of

PATENT REEL: 013664 FRAME: 0161

ASSIGNMENT OF A	PPLICATION	Docket Number( アック	Optional)
		······	· · · -
Whereas, I, <u>Ann Concannon</u>	of National Se	emiconductor Corp.	_, hereafte
referred to as applicant, have invented cert	tain new and useful impro	vements in	
ESD Protection Cluster and Method of Providing N	Multi-Port ESD Protection		
for which an application for a United Application Number/			
x for which an application for a Unite	d States Patent was exec	uted on	, and
Whereas, Mational Semiconductor	of	hereir	referred t
assignee" whose mailing address is 95051-	emiconductor Dr., Mail Stop	b D3-579, Santa Clara, CA	in de
sirous of acquiring the entire right, title and			
Now, therefore, in consideration of the sur		10.00 ) the receipt who	ereofis ac
knowledged, and other good and valuable			_
and transfer unto said assignee the full and	I exclusive right to the said	d invention in the United Sta	ates and th
entire right, title and interest in and to any a	nd all Patents which may b	be granted therefor in the Ur	nited States
I hereby authorize and request the Commi	issioner of Patents and T	rademarks to issue said Un	ited State
Patent to said assignee, of the entire right,	title, and interest in and to	the same, for his sole use a	and behoo
and for the use and behoof of his legal repr	resentatives, to the full en	d of the term for which said	Patent ma
be granted, as fully and entirely as the sam	ie would have been held b	by me had this assignment a	and sale no
been made.			
Executed this 5 <sup>4</sup>	day of Novemb	2002	
at NSC	• • • • • • •		
	0	C .	
Califacio	_ un	(Signature)	
State of Californiass: County of Santa Clara	ALL C	(0,90)	
Boloio nio poloonalij appealea eale	Ann Conco	a unon	
and acknowledged the foregoing instrumen day of			.1.10
Seals Seals	1136 ½ L/ZG	2 smolyan	15R
		(Notary Public)	

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ASSIGNMENT OF APPLICATION	Docket Number (Optional) Pos 412
Whereas, I, Peter J. Hopperof National Semic	onductor Corp, hereafter
referred to as applicant, have invented certain new and useful improveme ESD Protection Cluster and Method of Providing Multi-Port ESD Protection	ents in
for which an application for a United States Patent was filed on Application Number /	
X for which an application for a United States Patent was executed	on, and
Whereas, <u>National Semiconductor</u> of of 2900 Semiconductor Dr., Mail Stop D3-5 "assignee" whose mailing address is 95051-8090	herein referred to
2900 Semiconductor Dr., Mail Stop D3-5 assignee" whose mailing address is <u>95051-8090</u>	79, Santa Clara, CA is de-
sirous of acquiring the entire right, title and interest in the same;	
Now, therefore, in consideration of the sum of ten dollars (\$_10.00	0), the receipt whereof is ac-
knowledged, 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 inve	ntion in the United States and the
entire right, title and interest in and to any and all Patents which may be gra	inted therefor in the United States,
I hereby authorize and request the Commissioner of Patents and Traden	narks to issue said United States
Patent to said assignee, of the entire right, title, and interest in and to the s	ame, for his sole use and behoof;
and for the use and behoof of his legal representatives, to the full end of th	e 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
been made.	
Executed this <u>Stu</u> day of <u>Novent</u>	Jer ,20 07
at Mational Servicourbetor.	
State of <u>California</u> , SS: County of <u>Santa clora</u> Peter Happer Before me personally appeared said <u>Peter Happer</u> and acknowledged the foregoing instrument to be his free act and deed this	(Signature)
day of NOUEM ROC2002 LIZA SMOLYANITSKY ZQ S	molyanitsky
Seal Notary Public - Celifornia	(Notary Public)

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

ASSIGNMENT OF APPLICATION		Docket Number (Optional) アッチ 4 / て	
nereas, I, <u>Marcel ter Beek</u>	of National Semico	nductor Corp., hereafte	
erred to as applicant, have invented certai SD Protection Cluster and Method of Providing Mu	•	nts in	
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X for which an application for a United S		n, and	
nereas, <mark>National Semiconductor</mark> 2900 Sem ssignee" whose mailing address is <u>95051-80</u>	of niconductor Dr., Mail Stop D3-57 90	herein referred to '9, Santa Clara, CA is de-	
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w, therefore, in consideration of the sum o	ftendollars ( <u>\$</u> 10.00	)), the receipt whereof is _ac-	
owledged, and other good and valuable co	onsideration, I, the applicant, t	by these presents do sell, assigr	
d transfer unto said assignee the full and e	xclusive right to the said inver	ntion in the United States and the	
tire right, title and interest in and to any and	all Patents which may be grai	nted therefor in the United States	
ereby authorize and request the Commiss	sioner of Patents and Tradem	arks to issue said United States	
tent to said assignee, of the entire right, titl	le, and interest in and to the sa	ame, for his sole use and behoof	
d for the use and behoof of his legal repres	sentatives, to the full end of the	e term for which said Patent may	
granted, as fully and entirely as the same	would have been held by me l	nad this assignment and sale no	
en made.			
ecuted this $5 \neq k$	day of November	, <u>20</u> OZ_,	
National	· · · · · · · · · · · · · · · · · · ·	·	
State of <u>Caliform</u> SS: County of <u>Sauta</u> Chara Before me personally appeared said and acknowledged the foregoing instrument to lay of <u>November</u> , 20_02. Seal <u>LIZA SMOLYANITSK</u> Commission 2024	Liza J.	(Signature) Beek 54 molyanitsk (Notary Public)	
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## PATENT REEL: 013664 FRAME: 0164

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