FORM PTO-1619A

Expires 06/30/99 OMB 0651-0027 03-13-2002

U.S. Department of Commerce Patent and Trademark Office PATENT

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Conveying	Party(ies)	\boxtimes	Mark	if additional nam	es of conve	ying parties attached
Name (line 1)	Steinke, Stepher	ı, C.				Execution Date Month Day Year 10112001
Name (line 2)						
Second Party						Execution Date
Name (line 1)	Portwood, Gary	, R.				Month Day Year 11122001
Name (line 2)						
Receiving I	Party			☐ Mark if addit	ional names	s of receiving parties attached
Name (line 1)	Smith Internation	nal, Inc.				If document to be recorded
Name (line 2)						is an assignment and the receiving party is not
Address (line 1)) 16740 Hardy St	reet				domiciled in the United States, an appointment
Address (line 2))					of a domestic representative is attached.
Address (line 3)	Houston City	Texas State/Country		77032 Zip Code		(Designation must be a separate document from
Domestic R	Representative		ddre		Enter for	Assignment) the first Receiving Party only.
Name	•					
Address (line 1))					
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Mail documents to be recorded with required cover sheet(s) information to:

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Expires 06/30/99		Page 2	Patent	and Trademark Office		
OMB 0651-0027			***	PATENT		
Corresponde	nce Name and A		1 1701 1 37 1	(712) 220 0000		
		Area Co	de and Telephone Number	(713) 238-8000		
Name	Marcella D. Watkins					
Address (line 1)	CONLEY, ROSE &	ΓAYON, P. C.				
Address (line 2)	P. O. Box 3267					
Address (line 3)	Houston, Texas 7725	3-3267				
Address (line 4)						
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	Including any at	tachments		# 5		
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Statement and Signature						
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Marcella D. V	Vatkins	1/auch	selle !	elmay 1, 2002		
Name of Person	Signing	/ Signature		Date U		

Expires 06/30/99 OMB 0651-0027	C REC	CONTIN	UATION S ONLY		Patent and Trademark Office PATENT
Conveying Party(ies) Mark if additional names of conveying parties attached					ring parties attached
Enter additional (Conveying Parties				Execution Date Month Day Year
Name (line 1)	Garcia, Gary, E.				10152001
Name (line 2)					
					Execution Date Month Day Year
Name (line 1)	Moran, David, P.				11122001
Name (line 2)					
Name (line 1)	Quan Nguyen				Execution Date Month Day Year 10172001
Name (line 2)					
Receiving Pa	irty		Mark if additiona	al names	of receiving parties attached
Enter additional F	Receiving Party(ies)				
Name (line 1)					If document to be recorded
Name (line 2)					is an assignment and the receiving party is not domiciled in the United
Address (line 1)					States, an appointment of a domestic
Address (line 2)					representative is attached.
Address (line 3)	City	State/Country	Zip Code		(Designation must be a separate document from Assignment)
Name (line 1)					If document to be recorded
Name (line 2)					is an assignment and the receiving party is not
Address (line 1)					domiciled in the United States, an appointment
Address (line 2)					of a domestic representative is attached.
Address (line 3)					(Designation must be a separate document from
Address (III.e 3)	City	State/Country	Zip Code		Assignment)
Application Enter either the	Number(s) or	Patent Number	(s) t Number (DO NOT E	INTER B	Mark if additional numbers attached OTH numbers for the same property).
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TO: The Comm	nissioner of Patents			d original document(s) or copy(ies).	
Submission New	Туре		Conveyance Typ Assignment	e □ Security Agreement	
	omission (Non-Recoment ID#	ordation)	License	☐ Change of Name	
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Conveying	Party(ies)		Mark if additional names	of conveying parties attached	
Name (line 1)	Steinke, Stepho			Execution Date Month Day Year 06112001	
Name (line 2)					
Second Party				Execution Date Month Day Year	
Name (line 1) Name (line 2)	Portwood, Gar	y, R.		06192001	
Receiving 1	Party		☐ Mark if addition	nal names of receiving parties attached	
Name (line 1)	Smith Internat	ional, Inc.		If document to be recorded is an assignment and the	
Name (line 2)				receiving party is not domiciled in the United	
Address (line 1)	16740 Hardy S	Street		States, an appointment of a domestic	
Address (line 2))			representative is attached.	
Address (line 3	Houston City	Texas State/Country	77032 Zip Code	(Designation must be a separate document from Assignment)	
Domestic F	Representative	Name and Ac	ldress	Enter for the first Receiving Party only.	
Name					
Address (line 1)				
Address (line 2))				
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Expires 06/30/99		Page 2	Patent and Trademark Office
OMB 0651-0027			PATENT
Corresponde	nce Name and Addi		
		Area Code and Telepho	one Number (713) 238-8000
Name	Marcella D. Watkins		
Address (line 1)	CONLEY, ROSE & TAY	ON, P. C.	
Address (line 2)	P. O. Box 3267		
Address (line 3)	Houston, Texas 77253-32	67	
Address (line 4)			
PAGES	Enter the total num	ber of pages of the attached o	conveyance document
	Including any attack		# 5
	Number(s) or Patent Patent Application Number		Mark if additional numbers attached TER BOTH numbers for the same property).
Patent A 09/858,138	pplication Number(s)	:	Patent Number(s)
		new Patent Application, enter the dat	
signed by the first i	named executing inventor.		Month Day Year
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only if a	U.S. Application Number		
has not b	een assigned	PCT PC	CT PCT
Number of Pi	operties		
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Statement an	d Signature		
To the i	est of my knowledge a	nd belief, the foregoing informa	tion is true and correct and any
			es to deposit account are authorized, as
indicate	d herein.	11 1 11-	. (-7/2)
Marcella D. V	Vatkins	Mauth SAMan	10/56/11
Name of Person		Signature	Date

FORM PTO-1619	c REC		RM COVER SHE	ET	U.S. Department of Commerce
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Conveying Pa	arty(ies)	PATENT	if additional names of o	CORVE	PATENT
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Enter additional C	Conveying Parties				Execution Date Month Day Year
Name (line 1)	Garcia, Gary, E.				06112001
Name (line 2)					
					Execution Date
Name (line 1)	Moran, David, P.				Month Day Year 06132001
Name (line 2)					
					Execution Date
Name (Page 1)	O Name				Month Day Year
Name (line 1)	Quan Nguyen				10172001
Name (line 2)					
Receiving Pa	rty		Mark if additional i	names	of receiving parties attached
Enter additional R	eceiving Party(ies)				
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Address (line 2)					representative is attached.
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	City	State/Country	Zip Code		Assignment)
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Address (line 1)					domiciled in the United States, an appointment
Address (line 2)					of a domestic representative is attached.
Address (line 3)					(Designation must be a separate document from
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Patent A	pplication Number	r(s)		raten	Number(s)

ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to us by SMITH INTERNATIONAL, INC. and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, Stephen C. Steinke, Gary R. Portwood, Gary E. Garcia, David P. Moran, and Quan Nguyen ("ASSIGNORS"), having made an invention in Steel Tooth Cutter Element with Expanded Crest while in the employ either as an employee or consultant of Smith International, Inc. a corporation organized and existing under the laws of the State of Delaware doing business at Houston, Texas (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said Smith International, Inc. its successors and assigns, the entire right, title and interest throughout the world in and to:

- 1. Said invention in Steel Tooth Cutter Element with Expanded Crest,
- 2. United States of America patent application on said invention, Serial No. 09/858,138 filed May 15, 2001, Attorney's File No. 1030-13907 entitled Steel Tooth Cutter Element with Expanded Crest;
- 3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
- 4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
- 5. All substitutions for and divisions, continuations, continuations-inpart, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;

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- 6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;
- 7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
- 8. All international rights of priority associated with said invention, applications, patents and like protection;

ASSIGNORS

and we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at the place and on the date indicated below, opposite our signatures.

Date: 10-11-01	Stylen C. Steinle
Executed at:	Name. Stephen C. Steinke
THE STATE OFTEXAS § COUNTY OFHARRIS §	
BEFORE ME, the undersigned authority. Steinke, known to me to be the person whose name acknowledged to me that he executed the same expressed.	<u> </u>
GIVEN UNDER MY HAND AND SEAL	OF OFFICE, this the day of
INEZ G. SCHIFANI MY COMMISSION EXPIRES June 8, 2004	Notary Public in and for the State of <u>Texas</u>
My Commission Expires:	
6-8-04	

57289.01/1030.13907

Date: 11-12-01	13 - K 13 and 1
Executed at:	Name: Gary R. Portwood
THE STATE OF <u>lexas</u> §	
COUNTY OF Harry §	
BEFORE ME, the undersigned authority, Portwood, known to me to be the person whose name acknowledged to me that he executed the same expressed.	
GIVEN UNDER MY HAND AND SEAL (OF OFFICE, this the $\frac{12^{\frac{11}{2}}}{\sqrt{2}}$ day of
[SEAL] INEZ G. SCHIFANI MY COMMISSION EXPIRES June 8, 2004	Notary Public in and for the State of 10x05
My Commission Expires:	
6804	, ,
Date: 10 - 15 - 0	Name: Gary E. Garcia
Executed at:	Name. Gary E. Garota
THE STATE OF Texas § S S S S S S S S S S S S S	
BEFORE ME, the undersigned authority, on known to me to be the person whose name is acknowledged to me that he executed the same expressed.	this day personally appeared Gary E. Garcia, subscribed to the foregoing instrument, and for the purposes and consideration therein
GIVEN UNDER MY HAND AND SEAL (OF OFFICE, this the $\frac{15}{100}$ day of
INEZ G. SCHIFANI MY COMMISSION EXPIRES June 8, 2004	Notary Public in and for the State of Texas
My Commission Expires:	3 02 <u>/ C / B Q</u>
6-8-04	
57289.01/1030.13907	

Date: Nar 12, 2001	Clark o
	Name: David P. Moran
Executed at:	
THE STATE OF <u>RXAS</u> §	
COUNTY OF Harris §	
BEFORE ME, the undersigned authority, known to me to be the person whose name i acknowledged to me that he executed the san expressed.	
GIVEN UNDER MY HAND AND SEAT NOVEMBEY, 2001	L OF OFFICE, this the $\frac{12^{44}}{12^{44}}$ day of
[SEAL] INEZ G. SCHIFANI MY COMMISSION EXPIRES June 8, 2004	Notary Public in and for the State of Texas
My Commission Expires:	
6-8-04	
Date:	
	Name: Quan Nguyen
Executed at:	
THE STATE OF§	
COUNTY OF §	
BEFORE ME, the undersigned authority, known to me to be the person whose name is acknowledged to me that he executed the sar expressed.	on this day personally appeared Quan Nguyen, is subscribed to the foregoing instrument, and me for the purposes and consideration therein
GIVEN UNDER MY HAND AND SEA	L OF OFFICE, this the day of
[SEAL]	Notary Public in and for the State of
My Commission Expires:	
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Date:	
Executed at:	Name: David P. Moran
THE STATE OF§	
COUNTY OF §	
BEFORE ME, the undersigned authority, on known to me to be the person whose name is acknowledged to me that he executed the same expressed.	
GIVEN UNDER MY HAND AND SEAL, 2001	OF OFFICE, this the day of
[SEAL]	Notary Public in and for the State of
My Commission Expires:	the state of
Date: 10/17/01 Executed at: 3337 S. Bustil St. Sata five, CA 92704 THE STATE OF California \$ COUNTY OF Orange \$	Zuan Van Ny cyn Name: Quan Nguyen
BEFORE ME, the undersigned authority, of known to me to be the person whose name is acknowledged to me that he executed the same expressed. GIVEN UNDER MY HAND AND SEAL	e for the purposes and consideration therein
[S E A L]	Notary Public in and for the State of
My Commission Expires:	JOSEPH MY WAN VO
Hpil 05, 2005 57289.01/1030.13907 4	Netary Public - Celifornia Orange County My Comm. Expires Apr 5, 2005

PATENT REEL: 012654 FRAME: 0285

RECORDED: 02/19/2002