10-10-2007

ASSIGNMENT

0.5.01



)FFICEEET FOR PATENTS

103451653

To the Assistant Commissioner of Patents. Please record the attached original documents or copy thereof.

 Name of conveying party(ies): Name and address of receiving party(ies): Name: The Salamander Organisation Ltd Simon Robert Smith The Innovation Centre, York Science Park, Internal Address: The Innovation Centre, York Science YO10 5DG, United Kingdom Park, York, YO10 5DG, United Kingdom Richard Paul Whittington The Innovation Centre, York Science Park, York, YO10 5DG, United Kingdom Additional name(s) of conveying party(ies) attached? __Yes X No 3. Nature of Conveyance: X Assignment Merger _ Security Agreement __ Change of Name __ Other: Execution Date: February 14, 2000 Additional name(s) & address(es) attached? Yes X No Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: February 17, 2000 A. Patent Application No.(s) B. Patent No.(s) Additional Numbers Attached? __ Yes _X No Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of applications and patents 7. Total fee (37 CFR 3.41):........\$ 40.00 Previously submitted involved: 1 X Enclosed Authorized to be charged to deposit account 8. Deposit account number: 08-1500 (Attach duplicate copy of this page if paying by deposit account) DO NOT 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 the original document. MARK G. KACHIGIAN Name of Person Signing Total number of pages including cover sheet, attachments and document: 3 Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Box Assignments Washington D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project. (0651-0011), Washington D.C. 20503.

ASSIGNMENT

WHEREAS, SIMON ROBERT SMITH, a British Subject, located at The Innovation Centre, York Science Park, York, YO10 5DG, United Kingdom and RICHARD PAUL WHITTINGTON, a British Subject, located at The Innovation Centre, York Science Park, York, YO10 5DG, United Kingdom (hereinaftercalled ASSIGNORS) are co-inventors of certain new and useful improvements in:

METHOD FOR CONSTRUCTING A PROCESS-DRIVEN INFORMATION SYSTEM

for which they are about to make application for Letters Patent of the United States, which claims priority from Great Britain Patent Application No. 9903830.9 filed February 19, 1999; and

WHEREAS, ASSIGNORS, the said co-inventors, are now the owners of their undivided interest in the invention described and claimed therein, and all rights in, to and under the same; and

WHEREAS, THE SALAMANDER ORGANISATION LTD a corporation created and existing under the laws of Britain, doing business at The Innovation Centre, York Science Park, York, YO10 5DG, United Kingdom, (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to his undivided interest in the aforementioned invention; and

NOW THEREFORE, this indenture witnesseth that for and in consideration of the sum of One (\$1.00) Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS, the said co-inventors, have sold, assigned, transferred and set over and do hereby sell, assign, transfer and set over to the said ASSIGNEE their undivided interest in said invention, and any and all divisions and continuations thereof, and any and all Letters Patent of the United States, its territorial possessions, and any and all reissues of said Letters Patent, including the subject matter of any and all claims which may be obtained in every such patent, the same to be held and enjoyed by the said ASSIGNEE for its own use and behoof, and for the use and behoof of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States, territories are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by ASSIGNORS, if this assignment and sale had not been made.

ASSIGNORS hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patent of the United States on said invention, or resulting from said application, and from any and all divisions and continuations thereof to the said ASSIGNEE, of the undivided interest, and hereby covenants that they have full right to convey their undivided interest therein assigned, and that they have not executed and will not execute any agreement in conflict therewith.

ASSIGNORS further hereby covenant and agree that they will, at any time, upon request, at the expense of said ASSIGNEE, execute and deliver any and all papers that may be necessary or

desirable to perfect the title to said invention, and to said Letters Patent as may be granted therefor, in said ASSIGNEE, its successors, assigns, or other legal representatives, and that if said ASSIGNEE, its successors, assigns, or other legal representatives shall desire to file any divisional or continuation application, or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, they will, upon request, sign all papers, make all rightful oaths, and do all acts requisite for the filing of such divisional or continuing application, or such application for reissue and procuring thereof, and for the filing of such disclaimers, without further compensation, but at the expense of said ASSIGNEE, its successors or other legal representatives.

ASSIGNORS do further covenant and agree, that they will, at any time, upon request, communicate to said ASSIGNEE, its successors, assigns, or other legal representatives, at its expense, such facts relating to said invention and Letters Patent or the history thereof, as may be known to him, and testify as to the same in any interference or other litigation, when requested to do so.

IN WITNESS WHEREOF, we have hereunto set our hands this 146 day of Feoremy

SIMON ROBERT SMITE

RICHARD PAUL WHITTINGTON

EL197551077US

00138 Practitioner's Docket No. ___ PATENT

Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand comer of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' " M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application **Assistant Commissioner for Patents** Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s):

Simon Robert Smith and Richard Paul Whittington

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

METHOD FOR CONSTRUCTING A PROCESS-DRIVEN INFORMATION SYSTEM

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date 2-17-00, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number <u>EL197551077US</u>, in an envelope dressed to the: Assistant Commissions for the Assistant Commission for the Assistant Commission for the Assistant Commission for the Assistant Commission for the Assistant Commiss dressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

> IONYA Williams (type or print name of person mailing paper)

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal [4-1]—page 1 of 11)

1. 1 yp	of Application	
This i	ew application is for a(n)	
	(check one applicable item below)	
D	Coriginal (nonprovisional)	
	Design	
	☐ Plant	
WARNI	G: Do not use this transmittal for a completion in the U.S. of an International Application U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, or continuation-in-part application.	
WARNI	G: Do not use this transmittal for the filing of a provisional application.	
NOTE:	f one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APF TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTI N PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.	
	Divisional.	
	Continuation.	
	Continuation-in-part (C-I-P).	
2. Ben	fit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)	
NOTE:	A nonprovisional application may claim an invention disclosed in one or more prior filed of nonprovisional applications or copending international applications designating the United America. In order for a nonprovisional application to claim the benefit of a prior filed conprovisional application or copending international application designating the United America, each prior application must name as an inventor at least one inventor named in the conprovisional application and disclose the named inventor's invention claimed in at least of the later filed nonprovisional application in the manner provided by the first paragraph of a 112. Each prior application must also be:	d States of copending I States of e later filed one claim
	(i) An international application entitled to a filing date in accordance with PCT Artic lesignating the United States of America; or	le 11 and
	(ii) Complete as set forth in § 1.51(b); or	
	(iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic fili orth in § 1.16; or	ing fee set
	(iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and see set forth in § 1.21(f) within the time period set forth in § 1.53(f).	d retention
	7 C.F.R. § 1.78(a)(1).	
NOTE:	the new application being transmitted is a divisional, continuation or a continuation-in-part of ase, or where the parent case is an International Application which designated the U.S., if a prior provisional application is claimed, then check the following item and complete a DDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S., ION(S) CLAIMED.	or benefit and attach
WARNIN		ng date of 120, 121 the patent 65(b).) For ill issue is reference

(New Application Transmittal [4-1]—page 2 of 11)

4-4 **FORM 4-1**

> **PATENT REEL: 019952 FRAME: 0174**

2.

WARNING: When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).

The new application being transmitted claims the benefit of prior $\mathbf{u}.\mathbf{s}^{K}$ application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL

3.	Papers	Enclosed
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claims.) * Preliminary Amendment

Citations

Information Disclosure Statement (37 C.F.R. § 1.98)

Form PTO-1449 (PTO/SB/08A and 08B)

	Wh	HERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
. Pape	rs E	nclosed
		ed for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153) Application
9_ F	ages	s of specification
2_F	ages	s of claims
<u>10</u> §	Sheet	s of drawing
WARNING	fil. sr di th Fo	O NOT submit original drawings. A high quality copy of the drawings should be supplied when ing a patent application. The drawings that are submitted to the Office must be on strong, white, mooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the rawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Or comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 7-62).
ir ti O	nvento he Off in the	fying indicia, if provided, should include the application number or the title of the invention, or's name, docket number (if any), and the name and telephone number of a person to call if ice is unable to match the drawings to the proper application. This information should be placed back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top page " 37 C.F.R. § 1.84(c)).
		(complete the following, if applicable)
	"PE	e enclosed drawing(s) are photograph(s), and there is also attached a ETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." [7 C.F.R84(b).
	form	nal
**	info	ermal
B. Oth	er P	apers Enclosed
P	ages	of declaration and power of attorney
_ <u>1</u> _P	ages	of abstract
0	ther	
Additi	ional	papers enclosed
	Am	endment to claims
		Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
		Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original

(New Application Transmittal [4-1]—page 3 of 11)

] De	claration of Biological Deposit
	pe	bmission of "Sequence Listing," computer readable copy and/or amendment rtaining thereto for biotechnology invention containing nucleotide and/or nino acid sequence.
] Au tiv	thorization of Attorney(s) to Accept and Follow Instructions from Representa-
] Sp	ecial Comments
	Ot	her
5. Dec	clarati	on or oath (including power of attorney)
NOTE:	the properties by all applications the sign being declaration of the person of the per	ly executed declaration is not required in a continuation or divisional application provided that for nonprovisional application contained a declaration as required, the application being filed is or fewer than all the inventors named in the prior application, there is no new matter in the ation being filed, and a copy of the executed declaration filed in the prior application (showing mature or an indication thereon that it was signed) is submitted. The copy must be accompanied tatement requesting deletion of the names of person(s) who are not inventors of the application filed. If the declaration in the prior application was filed under § 1.47, then a copy of that ation must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning a under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently ted declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).
NOTE:	is direc abbrev countr	laration filed to complete an application must be executed, identify the specification to which it cted, identify each inventor by full name including family name and at least one given name, without viation together with any other given name or initial, and the residence, post office address and y or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 § 1.63(a)(1)–(4).
NOTE:	as pres as pres is that this pa	nventorship of a nonprovisional application is that inventorship set forth in the oath or declaration scribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration scribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under tragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name nes of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).
X	X En	closed
	Ex	ecuted by
		(check all applicable boxes)
	XX	inventor(s).
		legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.
		joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
		☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.
		t Enclosed.
	the U.S	the filing is a completion in the U.S. of an International Application or where the completion of S. application contains subject matter in addition to the International Application, the application of treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE SEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
		Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).
		(New Application Transmittal [4-1] —page 4 of 11)
(Rel 80—7/99	Pub.605)	FORM 4-1 4-6

(The de	eclai	ration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).
		Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))
Invent	tors	hip Statement
YARNING	OV	the named inventors are each not the inventors of all the claims an explanation, including the wnership of the various claims at the time the last claimed invention was made, should be within the last claimed invention was made, should be within the last claimed invention was made, should be within the last claimed invention was made, should be
The inve	ento	rship for all the claims in this application are:
XX	The	e same.
		or
		the same. An explanation, including the ownership of the various claims at time the last claimed invention was made,
		is submitted.
		will be submitted.
Langu	age	
Ar red	n Eng quire	dication including a signed oath or declaration may be filed in a language other than English. It is translation of the non-English language application and the processing fee of \$130.00 d by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may by the Office. 37 C.F.R. § 1.52(d).
X X	Eng	glish
	Nor	n-English
		The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).
Assign	ıme	nt
XX		assignment of the invention to <u>THE SALAMANDER ORGANIZATION</u> TD
	K	is attached. A separate ⊠ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.
		will follow.
OTE: "If and	an as d one	ssignment is submitted with a new application, send two separate letters-one for the application of the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).
ARNING:	A r	newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation- part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.
		(New Application Transmittal [4-1]—page 5 of 11)

FORM 4-1

(Rel.80—7/99 Pub.605)

6.

7.

8.

PATENT REEL: 019952 FRAME: 0177

4-7

Country Appln. No. Filed Filed Country Appln. No. Filed Country Appln. No. Filed Filed Filed Filed Country Appln. No. Filed		9903830.0		19 February 1
Country Cou	Country			<u> </u>
rom which priority is claimed is (are) attached. ix will follow. NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath of ceclaration. 37 C.F.R. § 1.55(a) and 1.63. NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent of the claim is application or international Application from which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDEI PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATIONS CLAIMED. 10. Fee Calculation (37 C.F.R. § 1.16) A. Xix Regular application CLAIMS AS FILED Number filed Number Extra Rate Basic Fee 37 C.F.R. § 1.16(a) \$7580.80c 6 Total Italims (37 C.F.R. 1.16(b)) 1	Country	Appln. No.		Filed
□x will follow. NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath of declaration. 37 C.F.R. § 1.55(a) and 1.63. NOTE: This item is for any foreign priority for which the application being filed directly relates. If any paren U.S. application or International Application from which this application, then complete item 18 on the ADDEL PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATIONS CLAIMED. 10. Fee Calculation (37 C.F.R. § 1.16) A. ★□ Regular application CLAIMS AS FILED Number filed Number Extra Rate Basic Fee 37 C.F.R. § 1.16(a) \$798&90.66 Total Claims (37 C.F.R. § 1.16(b)) 7 - 20 =	Country	Appin, No.		Filed
□x will follow. NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath of declaration. 37 C.F.R. § 1.55(a) and 1.63. NOTE: This item is for any foreign priority for which the application being filed directly relates. If any paren U.S. application or International Application from which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDEL PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATIONS CLAIMED. 10. Fee Calculation (37 C.F.R. § 1.16) A. ★□ Regular application CLAIMS AS FILED Number filed Number Extra Rate Basic Fee 37 C.F.R. § 1.16(a) \$7980.90 60tal Claims (37 C.F.R. 1.16(b)) 7 - 20 =	rom which priority is claimed			
NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath of declaration. 37 C.F.R. § 1.55(a) and 1.63. NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDEL PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATIONS CLAIMED. 10. Fee Calculation (37 C.F.R. § 1.16) A. XI Regular application CLAIMS AS FILED Number filed Number Extra Rate Basic Fee 37 C.F.R. § 1.16(a) \$7580.900 6 Total Claims (37 C.F.R. 1.16(b)) 7 - 20 =	☐ is (are) attached.			
declaration. 37 C.F.R. § 1.55(a) and 1.63. NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDEI PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED. 10. Fee Calculation (37 C.F.R. § 1.16) A. ★☑ Regular application CLAIMS AS FILED Number filed Number Extra Rate Basic Fee 37 C.F.R. § 1.16(a) \$788.90 6 Total Claims (37 C.F.R. 1.16(c)) 7 - 20 ≈ × \$ 18.00 Independent Claims (37 C.F.R. 1.16(b)) 1 - 3 = × \$ 78.00 Multiple dependent claim(s), if any (37 C.F.R. § 1.16(d)) + \$260.00 Amendment cancelling extra claims is enclosed. Amendment deleting multiple-dependencies is enclosed. Fee for extra claims is not being paid at this time. NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C.F.R. § 1.16(f) Filling Fee Calculation \$	\square_{\times} will follow.			
U.S. application of International Application from which this application claims benefit under 35 U.S.C. § 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDEL PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATIONS CLAIMED. 10. Fee Calculation (37 C.F.R. § 1.16) A. XI Regular application CLAIMS AS FILED Number filed Number Extra Rate Basic Fee 37 C.F.R. § 1.16(a) \$720.90 6 Statistics (37 C.F.R. 1.16(c)) 7 - 20 =			or priority must	be referred to in the oath or
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Claims (37 C.F.R. \$ 1.16(c))	Number filed	Number Extra	Rate	37 C.F.R. § 1.16(a)
Multiple dependent claim(s), if any (37 C.F.R. § 1.16(d)) + \$260.00 Amendment cancelling extra claims is enclosed. Amendment deleting multiple-dependencies is enclosed. Fee for extra claims is not being paid at this time. NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C.F.R. § 1.16(d). Filing Fee Calculation (\$310.00—37 C.F.R. § 1.16(f)) Filing Fee Calculation	1.16(c)) 7 - 20 dependent laims (37 C.F.R.			
Amendment cancelling extra claims is enclosed. Amendment deleting multiple-dependencies is enclosed. Fee for extra claims is not being paid at this time. NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C.F.R. § 1.16(d). Filing Fee Calculation (\$310.00—37 C.F.R. § 1.16(f)) Filing Fee Calculation	1.10(2)/) = X	\$ 78.00	
 ☐ Amendment deleting multiple-dependencies is enclosed. ☐ Fee for extra claims is not being paid at this time. NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C.F.R. § 1.16(d). Filing Fee Calculation \$ 6.90 B. ☐ Design application (\$310.00—37 C.F.R. § 1.16(f)) Filing Fee Calculation 		+	\$260.00	
prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C.F.R. § 1.16(d). Filing Fee Calculation (\$310.00—37 C.F.R. § 1.16(f)) Filing Fee Calculation \$	Amendment deletingFee for extra claims	multiple-dependencies is not being paid at th	is enclosed is time.	
B. Design application (\$310.00—37 C.F.R. § 1.16(f)) Filing Fee Calculation \$	prior to the expiration of the	time period set for response	by the Patent a	and Trademark Office in any
(\$310.00—37 C.F.R. § 1.16(f)) Filing Fee Calculation \$	Fil	ing Fee Calculation		\$_690
Filling Fee Galculation		§ 1.16(f))		
(New Application Transmittal [4-1]—page 6 of 11)	Fil	ing Fee Calculation		\$
		(New A	Application Tran	smittal [4-1]—page 6 of 11)

FORM 4-1

(Rel 80-7/99 Pub.605)

C.		Plant application (\$480.0037 C.F.R. § 1.16(g))
		Filing fee calculation \$
11.	Sma	Il Entity Statement(s)
,	XX	Statement(s) that this is a filing by a small entity under 37 C.F.R. § 1.9 and 1.27 is (are) attached.
WA	RNING	"Status as a small entity must be specifically established in each application or patent in which the status is available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. § 119(e), 120, 121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 C.F.R. § 1.28(a)(2).
WA	RNING	"Small entity status must not be established when the person or persons signing the statement can unequivocally make the required self-certification." M.P.E.P., § 509.03, 6th ed., rev. 2, July 1996 (emphasis added).
		(complete the following, if applicable)
		Status as a small entity was claimed in prior application
		, filed on, from which benefit
		is being claimed for this application under:
		35 U.S.C. § 🔲 119(e),
		□ 120,
		☐ 121, ☐ 365(a)
		□ 365(c),
		and which status as a small entity is still proper and desired.
		☐ A copy of the statement in the prior application is included.
		Filing Fee Calculation (50% of A, B or C above)
		\$ 345
	ar ex	ny excess of the full fee paid will be refunded if small entitiy status is established and a refund request e filed within 2 months of the date of timely payment of a full fee. The two-month period is not stendable under § 1.136. 37 C.F.R. § 1.28(a).
12.	Requ	iest for International-Type Search (37 C.F.R. § 1.104(d))
		(complete, if applicable)
		Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

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13. Fee Pay	ment Being Made at This Time	
☐ No	t Enclosed	
	No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. subsequently.)	§ 1.16(e) can be paid
€ k End	closed	
x53x	k Filing fee	\$ 345
*23	Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$ 40
	Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$
	For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$
	Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$
	Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$
failing t 37 C.F. either t	.R. § 1.21(I) establishes a fee for processing and retaining any app to complete the application pursuant to 37 C.F.R. § 1.53(I) and the .R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the beneather basic filing fee must be paid, or the processing and retention to year from notification under § 53(I).	nis, as well as the changes to efit of a prior U.S. application, fee of § 1.21(I) must be paid,
	Total fees enclosed	\$ 385
	of Payment of Fees	
	eck in the amount of \$385	
☐ Cha \$	arge Account No	in the amount of
Ad	suplicate of this transmittal is attached.	
NOTE: Fees sh § 1.22(nould be itemized in such a manner that it is clear fo which purpos b).	e the fees are paid. 37 C.F.R.
,		
	(New Application Trans	nsmittal [4-1]—page 8 of 11)
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REEL: 019952 FRAME: 0180

Authorization to Charge Additional Fees

WARNING: If no fees are to be paid on filing, the following items should not be completed.

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.

The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 08-1500

🔯 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.

37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

x 37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).

x 37 C.F.R. § 1.17 (application processing fees)

NOTE: ". . . A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

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16. Instructions as to Overpo	ayment
NOTE: " Amounts of twenty-five a reasonable time, nor will the	e dollars or less will not be returned unless specifically requested within a payer be notified of such amounts; amounts over twenty-five dollars may requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).
✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	08-1500
☐ Refund	
Reg. No. 32,840 Tel. No. (918) 587 2000	SIGNATURE OF PRACTITIONER Mark G. Kachigian (type or print name of attorney) 228 West 17th Place P.O. Address
Customer No.	Tulsa, Oklahoma 74119

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FORM 4-1 4-12

(New Application Transmittal [4-1]-page 10 of 11)

Incom	poration by reference of added pages	
pr st th	heck the following item if the application in this transmittal claims the benefit of rior U.S. application(s) (including an international application entering the U.S. age as a continuation, divisional or C-I-P application) and complete and attach le ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF RIOR U.S. APPLICATION(S) CLAIMED)	
ΧX	Plus Added Pages for New Application Transmittal Where Benefit of Prior XXX. Application(s) Claimed Number of pages added	U.K.
	Plus Added Pages for Papers Referred to in Item 4 Above Number of pages added	
	Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application. Number of pages added	
	Plus "Assignment Cover Letter Accompanying New Application" Number of pages added	
State	ment Where No Further Pages Added	

(if no further pages form a part of this Transmittal, then end this Transmittal with

this page and check the following item) ☐ This transmittal ends with this page.

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PATENT REEL: 019952 FRAME: 0183

4-12.1

FORM 4-1.1	4-2

	late Back—35 U or U.S. application(s		_		
	ntified above in iten				
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re	he PTO finds it useful i esponse is filed with th lovember 5, 1985 (1060	e papers constitutii	•	• •	_
A. 🗆	Extension of time	in prior applicat	ion		
(Thi:	s item must be con if the pe	mpleted and the riod set in the p			olication,
	A petition, fee and until	response exter	nds the term in .	the pending p	rior application
	☐ A copy of the	e petition filed in	prior application	on is attached	
B. 🗆	Conditional Petitic	on for Extension	of Time in Prio	r Application	
	(complete	this item, if pre	vious item not a	applicable)	
	A conditional peti application.	tion for extension	n of time is bei	ing filed in the	pending prior
	☐ A copy of the	conditional pet	ition filed in the	prior applicati	ion is attached.

(RcL71-6/97 Pub.605)

Added Pages for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed [4-1.1]—page 3 of 5)

RECORDED: 10/09/2007