	For	receiving Office us	e only
PCT	PCT For receiving Office use only		
	International Application	on No.	
REQUEST			
NEQUES I	International Filing Da	te	
The undersigned requests that the present			
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Off	ce and "PCT Interna	ational Application"
	Applicant's or agent's (<i>if desired</i>) (12 characted)		
Box No. I TITLE OF INVENTION			
<u>_</u>			
Box No. II APPLICANT This person	on is also inventor	1	
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of	the address indicated in this	Telephone No.	
Box is the applicant's State (that is, country) of residence if no State of reside	ence is indicated below.)	Facsimile No.	
		Applicant's registra	ation No. with the Office
E-mail authorization : Marking one of the check-boxes below authorizes the receiving Office, the International Searching Authority, the International Bureau and the International Preliminary Examining Authority to use the e-mail address indicated in this Box to send, notifications issued in respect of this international application to that e-mail address if those offices are willing to do so. as advance copies followed by paper notifications; or exclusively in electronic form (no paper notifications will be sent).			
E-mail address: State (that is, country) of nationality: State (that is, country) of residence:			
This person is applicant for the purposes of:	the States indicate	d in the Supplement	al Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
Further applicants and/or (further) inventors are indicated	on a continuation sheet.		
Box No. IV AGENT OR COMMON REPRESENTATIVE	E; OR ADDRESS FOR	CORRESPONDE	NCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	on behalf s as:	agent	common representative
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)Telephone No.			
		Facsimile No.	
		Agent's registration	n No. with the Office
E-mail authorization: Marking one of the check-boxes below authorizes the receiving Office, the International Searching Authority, the			
International Bureau and the International Preliminary Examini notifications issued in respect of this international application to the	ng Authority to use the	e-mail address indic	ated in this Box to send,
\square as advance copies followed by paper notifications; or \square exclusively in electronic form (no paper notifications will be sent).			
E-mail address:			• . • • •
Address for correspondence: Mark this check-box where space above is used instead to indicate a special address to	e no agent or common rep which correspondence s	resentative is/has been hould be sent.	en appointed and the

Box No. III FURTHER APPLICANT(S) AND/OR (FUR	THER) INVENTOR(S)	
If none of the following sub-boxes is used, this sheet should a	not be included in the rea	quest.
Name and address: (Family name followed by given name; for a legal et The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residence if no State of residence if no State (that is, country) of residence if no State of residence)	f the address indicated in this	This person is: applicant only applicant and inventor inventor only (<i>If this check-box</i> <i>is marked, do not fill in below.</i>) Applicant's registration No. with the Office
State (<i>that is, country</i>) of nationality:	State (<i>that is, country</i>) of residence:
This person is applicant all designated States	the States indicate	d in the Supplemental Box
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residence if no State of residence if no State (that is, country) of residence if no State of residenc	f the address indicated in this	This person is: applicant only applicant and inventor inventor only (<i>If this check-box</i> <i>is marked, do not fill in below.</i>) Applicant's registration No. with the Office
State (<i>that is, country</i>) of nationality:	State (that is, country)) of residence:
This person is applicant all designated States the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residence if no State of residence if no State (that is, country) of residence if no State of residenc	f the address indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (<i>that is, country</i>) of nationality:	State (<i>that is, country</i>)) of residence:
This person is applicant all designated States	the States indicate	d in the Supplemental Box
Name and address: (Family name followed by given name; for a legal e The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of resid	f the address indicated in this	This person is: applicant only applicant and inventor inventor only (<i>If this check-box</i> <i>is marked, do not fill in below.</i>) Applicant's registration No. with the Office
State (<i>that is, country</i>) of nationality:	State (that is, country)	of residence:
This person is applicant all designated States	the States indicate	d in the Supplemental Box
Further applicants and/or (further) inventors are indicated	d on another continuation	sheet.

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than one person is to be indicated as applicant and/or inventor and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- 2. If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition," "the number of the parent application or parent patent or other parent grant and the date of grant of the parent application (Rules 4.11(a)(i) and 49bis.1(a) or (b)).
- 3. If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(ii) and 49bis.1(d)).

Box No. V DESIGNATIONS

The filing of this request **constitutes under Rule 4.9(a) the designation** of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

DE Germany is not designated for any kind of national protection

JP Japan is not designated for any kind of national protection

KR Republic of Korea is not designated for any kind of national protection

(The check-boxes above may only be used to exclude (irrevocably) the designations concerned if, at the time of filing or subsequently under Rule 26bis.1, the international application contains in Box No. VI a priority claim to an earlier national application filed in the particular State concerned, in order to avoid the ceasing of the effect, under the national law, of this earlier national application.)

Box No. VI PRIORITY CLAIM AND DOCUMENT

The priority of the following earlier application(s) is hereby claimed:

Filing date	Number	Where earlier application is:		s:
of earlier application (<i>day/month/year</i>) of earlier application	national application: country or Member of WTO	regional application: regional Office	international application: receiving Office	
item (1)				
item (2)				
item (3)				
Further priority claims are indica	tted in the Supplemental E	Box.		
Furnishing the priority document(s)):			
The receiving Office is requester (only if the earlier application(s the receiving Office) identified a) was filed with the receiv			
all items item (1)) item (2)	item (3)	other, see Supple	mental Box
The International Bureau is requising, where applicable, the acceleration				
item (1) access code	item (2) access code	item (3 access	3) code	other, see Supplemental Box
Restore the right of priority: the real above or in the Supplemental Box as <i>information must be provided to supp</i>	item(s) (-		
Incorporation by reference: where	an element of the interna	tional application refer	red to in Article 11(1)	(iii)(d) or (e) or a part of
the description, claims or drawings completely contained in an earlier ap Article 11(1)(iii) were first received incorporated by reference in this inte	plication whose priority by the receiving Office	is claimed on the date , that element or part	on which one or more is, subject to confirm	elements referred to in
Box No. VII INTERNATIONAL	SEARCHING AUTHOR	RITY		
Choice of International Searching	Authority (ISA) (if more	than one International S	Searching Authority is c	ompetent to carry out the
international search, indicate the Auth				
ISA/				

		Sheet No		
Cont	Continuation of Box No. VII USE OF RESULTS OF EARLIER SEARCH, REFERENCE TO THAT SEARCH			
		Box No. VII is requested to take into account the results of <i>of results of more than one earlier search</i>).	the earlier search(es) indicated below (see also	
Filin	g date (<i>day/month/year</i>)	Application Number	Country (or regional Office)	
	which the earlier search	(ii)): this international application is the same, or substanch was carried out except, where applicable, that it is file	d in a different language.	
	do not need to be subt a copy of the res a copy of the ear a translation of t a translation of t	nents : the following documents are available to the ISA in a mitted by the applicant to the ISA (Rule 12 <i>bis</i> .1(f)): ults of the earlier search,* dier application, he earlier application into a language which is accepted by the results of the earlier search into a language which is a cument cited in the results of the earlier search. (<i>If known, p</i>)	by the ISA, ccepted by the ISA,	
	indicated above but b prepare and transmit t a copy of the res a copy of the ear a copy of any do here the results of the ear	sults of earlier search and other documents (where the y the same Office as that which is acting as the receiving o the ISA (Rule 12bis.1(c)): ults of the earlier search,* dier application, cument cited in the results of the earlier search. rlier search are neither available from a digital library nor tr n to the receiving Office (Rule 12bis.1(a)) (See item 11. in	g <i>Office</i>): the receiving Office is requested to ansmitted by the receiving Office, the applicant	
Filin	g date (day/month/year)	Application Number	Country (or regional Office)	
	 which the earlier searce Availability of docum do not need to be submediated a copy of the ressing a copy of the earling a translation of the translation of	(ii)): this international application is the same, or substan ch was carried out except, where applicable, that it is file nents : the following documents are available to the ISA in a mitted by the applicant to the ISA (Rule 12 <i>bis</i> .1(f)): ults of the earlier search,* dier application, he earlier application into a language which is accepted b he results of the earlier search into a language which is a cument cited in the results of the earlier search. (<i>If known, p</i>	d in a different language. form and manner acceptable to it and therefore by the ISA, ccepted by the ISA,	
 Transmit copy of results of earlier search and other documents (where the earlier search was not carried out by the ISA indicated above but by the same Office as that which is acting as the receiving Office): the receiving Office is requested to prepare and transmit to the ISA (Rule 12bis.1(c)): a copy of the results of the earlier search,* a copy of the earlier application, a copy of any document cited in the results of the earlier search. * Where the results of the earlier search are neither available from a digital library nor transmitted by the receiving Office, the applicant is required to submit them to the receiving Office (Rule 12bis.1(a)) (See item 11. in the check-list and also Notes to Box No. VII). 				
	Further earlier searche	es are indicated on a continuation sheet.		
Box No. VIII DECLARATIONS				
		are contained in Boxes Nos. VIII (i) to (v) (mark the appl the in the right column the number of each type of declaration		
	Box No. VIII (i)	Declaration as to the identity of the inventor	:	
	Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the in date, to apply for and be granted a patent	nternational filing :	
	Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the date, to claim the priority of the earlier application	international filing :	
	Box No. VIII (iv)	Declaration of inventorship (only for the purposes of th United States of America)	e designation of the	
	Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exception	ons to lack of novelty :	

Sheet No	•		•
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Box No. TX CHECK LIST for PAPER filings – this sheet is only to be used when filing an international application Number This international application is accompanied by the formation of polymeter of sheets Number (a) request form PCTRAD101 (b) request form PCTRAD101 (c) request form Image: the sheet of sheets (a) description : (c) description : (c) description : (c) description : (c) claims : (c) dawing sing any sequence listing part of the description, see (f), below) : (c) claims : (d) abstract : (e) dawings (f any) : (f) can tumber of sheets : in		Sheet No
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(a) request form PCTRO101 (including any declarations and supplemental sheets)		following item(s) (mark the applicable check-boxes below of iter
including any declarations and supplemental sheets)		
declarations and supplemental sheets)		
supplemental sheets) 3. original general power of atomey: efferace mumber: :: (b) description (excluding any sequence listing part of the description. :: (c) copy of general power of atomey: efferance mumber: :: (c) claims :: : priority document(s) identified in Box No. VI as item(s) :: (c) claims :: : : :: :: (d) abstract :: : :: :: :: (e) drawings (if any) :: :: :: :: :: (f) sequence listing part of the description (if any) :: :: :: :: :: (f) sequence listing part of the international application, which is furnished only part of the international application, which is furnished only part of the international application is which is furnished only international application is strained in the information recorded in electronic form (Amer CST 25 text file) on physical data carriers) :: Total number of sheets :: :: : : : :: It could accompany the abstract: :: :: : : : : : : It could accompany the abstract: :: : : : <t< td=""><td></td><td>2. \square original separate power of attorney :</td></t<>		2. \square original separate power of attorney :
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(c) Claims	-	
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(f) sequence listing part of the description (if any)	(e) drawings (if any) :	physical data carrier(s) of the sequence listing, not forming
description (if any) : : : : : : : : : :		
9. (only where item (f) (in the left column) and item 8 (above) are marked) a statement confirming that "the information recorded in electronic form submitted under Rule 13ter is identical to the sequence listing as contained in the international application" as filed on paper		
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Figure of the drawings which should accompany the abstract: Language of filing of the international application: Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the reque 1. Date of actual receipt of the purported international application: 1. Date of actual receipt of the purported international application: For receiving Office use only 2. Drawings: . 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: 2. Drawings: 		10. \Box copy of results of earlier search(es) (Rule 12 <i>bis</i> .1(a)) :
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