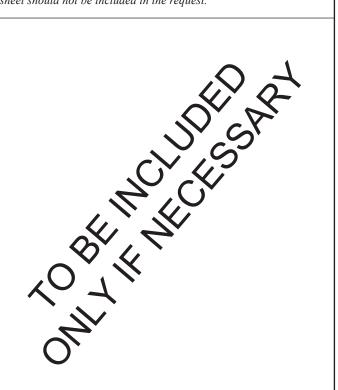
РСТ	For	r receiving Office use only	
	T , , T A B , P),	
DEQUEST	International Applicatio	on No.	
REQUEST	International Filing Da	te	
The undersigned requests that the present			
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Offi	ce and "PCT International Application"	
	Applicant's or agent's file	e reference (if desired) (25 characters maximum)	
Box No. I TITLE OF INVENTION			
Box No. II APPLICANT This person	on is also inventor		
Name and address: (Family name followed by given name; for a legal em 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 reside	the address indicated in this	E-mail address*	
Dox is the applicant's state (that is, country) of residence if no state of residence is indicated below.)		Telephone No.	
		Facsimile No.	
		Applicant's registration No. with the Office	
* E-mail authorization: Indicating an e-mail address above author International Bureau, if they provide such a service, to send notif marked:	ications exclusively by e-	, the International Searching Authority and the mail to that address, unless the following box is	
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		d in the Supplemental Day	
Inits person is applicant all designated States Box No. III FURTHER APPLICANT(S) AND/OR (FURT		d in the Supplemental Box	
Further applicants and/or (further) inventors are indicated			
Box No. IV AGENT OR COMMON REPRESENTATIVE		CORRESPONDENCE	
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	on behalf	agent common representative	
of the applicant(s) before the competent international Authorities as:		1	
		Telephone No.	
Facsimile No.		Facsimile No.	
Agent's registration No. with the Office			
* E-mail authorization: Indicating an e-mail address above authorizes the receiving Office, the International Searching Authority and the International Bureau, if they provide such a service, to send notifications exclusively by e-mail to that address, unless the following box is marked:			
notifications are requested to be sent exclusively by postal mail. Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space			
above is used instead to indicate a special address to which correspondence should be sent.			

Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	ER) INVENTOR(S)	
If none of the following sub-boxes is used, this sheet should not be included in the request.		
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e 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 (that is, country	<i>i</i>) of residence:
This person is applicant all designated States	the States indicated	d in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e 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 (that is, country) of nationality:	State (that is, country	<i>)</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 entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e 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 (that is, country) of nationality:	State (that is, country) 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 entity, full official designation. The address must include postal code and name of country. 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.) This person is:		
State (that is, country) of nationality:	State (that is, country)) of residence:
This person is applicant all designated States	the States indicated	d in the Supplemental Box
Further applicants and/or (further) inventors are indicated 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, "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)).



Sheet No				
Box No. V DESIGNATIONS	Box No. V DESIGNATIONS			
The filing of this request constitutes un filing date, for the grant of every kind of				
However,				
DE Germany is not designated				
JP Japan is not designated for a				
KR Republic of Korea is not des		-		
(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.)				al application filed in the
Box No. VI PRIORITY CLAIM A	AND DOCUMENT			
The priority of the following earlier	application(s) is hereby	claimed:		
Filing date	Number	Whe	ere earlier application is	5:
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application: regional Office	international application: receiving Office
item (1)				
item (2)				
item (3)				
Item (3)				
Further priority claims are indicat	ed in the Supplemental B	ox.		
Furnishing the priority document(s)	:			
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) <i>(only if the earlier application(s) was filed with the receiving Office which, for the purposes of this international application, is the receiving Office)</i> identified above as:				
\square all items \square item (1) \square item (2) \square item (3) \square other, see Supplemental Box				
The International Bureau is requested to obtain from a digital library a certified copy of the earlier application(s) identified above, using, where applicable, the access code(s) indicated below <i>(if the earlier application(s) is available to it from a digital library</i>):				
item (1) access code	item (2) access code	item (3 access)) code	other, see Supplemental Box
Restore the right of priority: the receiving Office is requested to restore the right of priority for the earlier application(s) identified above or in the Supplemental Box as item(s) (). (See also the Notes to Box No. VI; further information must be provided to support a request to restore the right of priority.)				
Incorporation by reference: where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a), or an element or part of the description, claims or drawings referred to in Rule 20.5 <i>bis</i> (a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6.				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Choice of International Searching Authority (ISA) (if more than one International Searching Authority is competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA/				

Continuation of Box No. VII USE OF EARLIER SEARCH AND CLASSIFICATION RESULTS			
1. Request by the applicant under Rule 4.12			
1.1 The ISA indicated in Box No. VII is requested to take into account the results of the earlier search(es) indicated below (see also Notes to Continuation of Box No. VII, item 1; use of results of more than one earlier search) Filing date (day/month/year) Application Number			
 Statement (Rule 4.12(ii)): this international application is the same, or substantially the same, as the application in respect of which the earlier search was carried out except, where applicable, that it is filed in a different language. Submission of the earlier search results, where necessary* 			
Availability of documents (Rules 12 <i>bis</i> .1(c) and (d) and 12 <i>bis</i> .2(b)): the following documents are available to the ISA in a form and a manner acceptable to it, and therefore DO NOT need to be submitted by the applicant to the receiving Office, or to the ISA.			
a copy of the results of the earlier search,			
 a copy of the earlier application, a translation of the earlier application into a language which is accepted by the ISA, 			
a translation of the results of the earlier search into a language which is accepted by the ISA,			
a copy of any document cited in the earlier search results (if known, please indicate below the documents available to the ISA):			
 Request from the applicant to the receiving Office to transmit to the ISA a copy of the earlier search results (Rule 12bis.1(b) and (d)): (where the earlier search was not carried out by the ISA indicated in Box No. VII but by the same Office as that which is acting as receiving Office; or where the earlier search results are otherwise available to the receiving Office): the applicant requests the receiving Office to prepare and transmit to the ISA a copy of the earlier search results. * The applicant only needs to furnish a copy of the earlier search results to the receiving Office, or the ISA, if none of the scenarios 			
mentioned under item 1 applies. (See item 10 in the check-list and also Notes to Continuation of Box No. VII, item 1).			
Further earlier searches are indicated on a continuation sheet.			
2. Transmission of the earlier search and classification results to the ISA by the receiving Office where the applicant DID NOT make a request under Rule 4.12			
2.1 Where the international application claims priority of an earlier application, subject to Article 30(2)(a) and (3), the receiving Office:			
- shall transmit a copy of the earlier search and classification results to the ISA (unless such copy is already available to the ISA), where the earlier application was filed with the same Office as that which is acting as the receiving Office and that Office has carried out the earlier search in respect of the earlier application (Rule 23bis.2(a));			
 may transmit such a copy if the earlier application was filed with a different Office, but where the results of that earlier search and classification are nevertheless available to the receiving Office (Rule 23<i>bis</i>.2(c)). 			
However, where the applicant did not request the receiving Office to transmit to the ISA a copy of the earlier search results under Rule 4.12 (see above item 1), in respect of an earlier search carried out on the following earlier application, the priority of which is subsequently claimed in this international application, the applicant may consider (<i>see also Notes to Continuation of Box No. VII, item 2; use of more than one earlier search</i>):			
Filing date (day/month/year)Application NumberCountry (or regional Office)			
 2.2 Request not to transmit the earlier search results by the receiving Office to the ISA (Rule 23bis.2(b)) □ to request that the receiving Office DOES NOT transmit the results of the earlier search to the ISA (Rule 23bis.2(b)) (may only be checked where the international application is filed with the following receiving Offices: DE, FI and SE) 2.3 Authorization to transmit the earlier search and classification results by the receiving Office to the ISA (Rule 23bis.2(a) and (e)) □ to authorize the receiving Office to transmit the results of the earlier search and classification to the ISA (Rule 23bis.2(a) and (e)) □ to authorize the receiving Office to transmit the results of the earlier search and classification to the ISA (Rule 23bis.2(a) (may only be checked where the international application is filed with the following receiving Offices: AU, CZ, FI, HU, IL, JP, NO, SE, 			
SG and US) to authorize the receiving Office to transmit the results of the earlier international search and classification to the ISA (Rule 23 <i>bis</i> .2(a) and Article 30(2)(a) and (3)) (may only be checked where the earlier search concerns an international application , the priority of which is subsequently claimed in this international application and where the earlier international search was carried out by a different ISA than the ISA chosen in Box No. VII)			
Further earlier searches are indicated on a continuation sheet.			
Box No. VIII DECLARATIONS			
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of check-boxes below and indicate in the right column the number of each type of declaration): Number 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 international filing date, to apply for and be granted a patent :			
Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :			
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America) :			
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty :			

See Notes to the request form

Box No. VIII (i) DECLARATION: IDENTITY OF THE INVENTOR

The declaration must conform to the standardized wording provided for in Section 211; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (i). If this Box is not used, this sheet should not be included in the request.

NOT INCLUDED NOT INCLUDED NOT MOLIURE Inventor is named in Box No. III

Declaration as to the identity of the inventor (Rules 4.17(i) and 51bis.1(a)(i)):

This declaration is continued on the following sheet, "Continuation of Box No. VIII (i)".

Γ

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Box No. VIII (iii) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

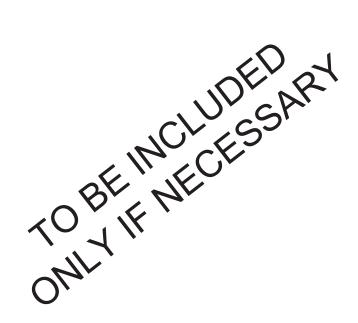
TO BE INCLUDED ARY

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iii)".

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America) The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (iv). If this Box is not used, this sheet should not be included in the request.
Declaration of inventorship (Rules 4.17(iv) and 51 <i>bis</i> .1(a)(iv)) for the purposes of the designation of the United States of America:
I hereby declare that I believe I am the original inventor or an original joint inventor of a claimed invention in the application.
This declaration is directed to the international application of which it forms a part (if filing declaration with application).
This declaration is directed to international application No. PCT/ (if furnishing declaration pursuant to Rule 26 <i>ter</i>).
I hereby declare that the above-identified international application was made or authorized to be made by me.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
Name:
Residence:
Mailing Address:
Inventor's Signature: Date: (The signature must be that of the inventor, not that of the agent) Date:
Name:
Residence:
Mailing Address:
Inventor's Signature: Date: (The signature must be that of the inventor, not that of the agent)
Name:
Residence:
Mailing Address:
Inventor's Signature: Date: (The signature must be that of the inventor, not that of the agent) Date:
This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

Box No. VIII (v) DECLARATION: NON-PREJUDICIAL DISCLOSURES OR EXCEPTIONS TO LACK OF NOVELTY *The declaration must conform to the standardized wording provided for in Section 215; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (v). If this Box is not used, this sheet should not be included in the request.*

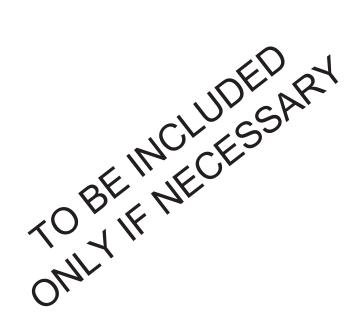
Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(a)(v)):



This declaration is continued on the following sheet, "Continuation of Box No. VIII (v)".

Continuation of Box No. VIII (i) to (v) DECLARATION

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than three inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII ..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.



Sheet No.

Box No. IX CHECK LIST for PAPER filing	– only to be used when filing on PAPER	
This international applicationNumbercontains the following:of sheets	This international application is accompanied by the following item(s) <i>(mark the applicable check-boxes below and indicate in right column the number of each item):</i>	<i>w</i> Number of items
(a) request form PCT/RO/101 (including any	1. fee calculation sheet	:
declarations and supplemental	2. original separate power of attorney	:
sheets)	3.	:
(b) description:	4. Copy of general power of attorney; reference number:	
(c) claims :		
(d) abstract :	5. priority document(s) identified in Box No. VI as item(s)	:
(e) drawings (if any) :	6. Translation of international application into <i>(language)</i> :	:
Total number of sheets :	 7. separate indications concerning deposited microorganism or other biological material 	:
(f) sequence listing part of the description as a WIPO Standard ST.26 XML file <i>(indicate type</i>)	8. \Box copy of results of earlier search(es) (Rule 12 <i>bis</i> .1((a)) :
and number of physical data carrier(s)):	9. d other <i>(specify)</i> :	:
Figure of the drawings which should accompany the abstract:	Language of filing of the international application:	
-	ENT OR COMMON REPRESENTATIVE	
Next to each signature, indicate the name of the person signing a	nd the capacity in which the person signs (if such capacity is not obvious	from reading the request).
 Date of actual receipt of the purported international application: 	For receiving Office use only	2. Drawings:
 Corrected date of actual receipt due to later but timely received papers or drawings completing 		received:
the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 11(2):		not received:
5. International Searching Authority (if two or more are competent):	6. Transmittal of search copy delayed until search fee is paid	
	International Bureau use only	
Date of receipt of the record copy by the International Bureau:		

Box No. IX CHECK LIST for electronic filing with RO/US – only to be used when filing via the USPTO electronic filing system			
This international applicationNumbercontains the following:of sheets	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number w of items	
(a) request form PCT/RO/101(including any declarations and supplemental sheets):	1. fee calculation sheet.	:	
(b) description	2.	:	
(c) claims	 3. original general power of attorney	:	
(d) abstract:	nunger	:	
(e) drawings (if any)	5. priority document(s) identified in Box No. VI	:	
Total number of sheets	 ✓ Translation of incrnational application into (language): 	:	
(f) sequence listing part of the description	7. Experience indications concerning deposited		
filed as a WIPO Standard ST.26 X.1L fe	meror ganism or other biological material	:	
□ WILL BE filed separately on plysical data carrier(s) as a WIPO Standard S7.26 XML file, on the same day	copy of results of earlier search(es) (Rule 12bis.1(
Indicate type and number of physical data carrier(s)	9. □ other (<i>specify</i>):	:	
Figure of the drawings which should accompany the abstract	Language of filing of the international application:		
Box No. X SIGNATURE) FAPPLICANT, AGENT OR COMMON REPRESENTATIVE Next to each signature indice of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).			
1. Date of actual receipt of the purported international application:	For receiving Office use only	2. Drawings:	
 Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: 		received:	
 4. Date of timely receipt of the required corrections under PCT Article 11(2): 		not received:	
5. International Searching Authority (if two or more are competent):	6. Transmittal of search copy delayed until search fee is paid		
	International Bureau use only		
Date of receipt of the record copy by the International Bureau:			

L

This sheet is not part of and does not count as a sheet of the international application.

PCT	
FEE CALCULATION S	SHEET

Annex to the Request

- For receiving Office use only

International Application No.

Applicant's or agent's file reference			
Approant 5 of agent 5 me felerence	Date stamp of the receiving Office		
Applicant			
Applicant			
CALCULATION OF PRESCRIBED FEES			
(Applicants may be entitled to a reduction of certain fees as indicated in (www.wipo.int/pct/en/fees.pdf))	the PCT Fee Tables		
1. TRANSMITTAL FEE:	<u>T</u>		
2. SEARCH FEE:			
International search to be carried out by:			
3. INTERNATIONAL FILING FEE			
Enter total number of sheets indicated in Box No IX:			
i1 Fixed amount for the first 30 sheets	i1		
i2 x =	i2		
in excess of 30			
Add amounts entered at i1 and i2 and enter total at I:			
(Applicants from certain States are entitled to a reduction of 90% of the international filing fee (see www.wipo.int/pct/en/fees/fee_reduction.pdf). Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 10% of the international filing fee.)			
4. FEE FOR PRIORITY DOCUMENT (<i>if applicable</i>):	P		
5. FEE FOR RESTORATION OF THE RIGHT OF PRIORITY (<i>if applicable</i>):	RP		
6. FEE FOR EARLIER SEARCH DOCUMENTS (<i>if applicable</i>):	ES		
]		
7. TOTAL FEES PAYABLE			
Add amounts entered at T, S, I, P, RP and ES, and enter total in the TOTAL box	TOTAL		
MODE OF PAYMENT (Not all modes of payment may be available at	all receiving Offices)		
credit card <i>(details should not be included on this sheet)</i> authorization to charge deposit or current account (see below)	bank transfer		
postal money order	revenue stamps other <i>(specify)</i> :		
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT OR CURRENT ACCOUNT			
(This mode of payment may not be available at all receiving Offices)	Receiving Office: RO/		
Authorization to charge the total fees indicated above.	Deposit or Current Account No.:		
(This check-box may be marked only if the conditions for deposit or curre	ent Date:		
accounts of the receiving Office so permit) Authorization to charge a deficiency or credit any overpayment in the total fees indicated above	ny ve. Name:		
Authorization to charge the fee for priority document.	Signature:		

Form PCT/RO/101 (Annex) (July 2022)