

**PCT****REQUEST**

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

PCT/US09/69652 International Application No.	
29-12-2009	29 DEC 2009
International Filing Date	
PCT INTERNATIONAL APPLICATION RO/US	
Name of receiving Office and "PCT International Application"	
Applicant's or agent's file reference (if desired) (12 characters maximum) 21122.0043P1	

<b>Box No. I</b>	<b>TITLE OF INVENTION</b>	
	DUAL FUNCTIONING IONIC LIQUIDS AND SALTS THEREOF	
<b>Box No. II</b>	<b>APPLICANT</b>	<input type="checkbox"/> This person is also inventor
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.)		Telephone No.
THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA 801 University Boulevard Tuscaloosa, AL 35487 US		Facsimile No.
		Applicant's registration No. with the Office
<input type="checkbox"/>	<b>E-mail authorization:</b> Marking this check-box 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, if the Office or Authority so wishes, advance copies of notifications in respect of this international application. (See also the Notes to Boxes Nos. II and III.)	E-mail address
State (that is, country) of nationality: US		State (that is, country) of residence: US
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box		
<b>Box No. III</b>	<b>FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>	
<input checked="" type="checkbox"/>	Further applicants and/or (further) inventors are indicated on a continuation sheet.	
<b>Box No. IV</b>	<b>AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE</b>	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:		<input checked="" type="checkbox"/> agent <input type="checkbox"/> 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.
KATZ, Mitchell A. BALLARD SPAHR LLP 999 Peachtree Street Suite 1000 Atlanta, GA 30309-3915 US		678.420.9300
		Facsimile No.
		678.420.9301
		Agent's registration No. with the Office
		33,919
<input type="checkbox"/>	<b>E-mail authorization:</b> Marking this check-box 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, if the Office or Authority so wishes, advance copies of notifications in respect of this international application. (See also the Notes to Boxes Nos. II and III.)	E-mail address
<input type="checkbox"/>	<b>Address for correspondence:</b> 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 (FURTHER) INVENTOR(S)**

*If none of the following sub-boxes is used, this sheet should not be included in the request.*

<p>Name and address: <i>(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.)</i></p> <p><b>MONASH UNIVERSITY</b>  <b>Monash University</b>  <b>Melbourne, Victoria 3800</b>  <b>Australia</b></p>	<p>This person is:</p> <p><input checked="" type="checkbox"/> applicant only</p> <p><input type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i></p>
<p>Applicant's registration No. with the Office</p>	

<p>State <i>(that is, country)</i> of nationality:  <b>AU</b></p>	<p>State <i>(that is, country)</i> of residence:  <b>AU</b></p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input checked="" type="checkbox"/> all designated States except the United States of America</p>	<p><input type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p>Name and address: <i>(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.)</i></p> <p><b>ROGERS, Robin D.</b>  <b>32 Audubon Place</b>  <b>Tuscaloosa, AL 35401</b>  <b>US</b></p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i></p>
<p>Applicant's registration No. with the Office</p>	

<p>State <i>(that is, country)</i> of nationality:  <b>US</b></p>	<p>State <i>(that is, country)</i> of residence:  <b>US</b></p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input type="checkbox"/> all designated States except the United States of America</p>	<p><input checked="" type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p>Name and address: <i>(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.)</i></p> <p><b>DALY, Daniel T.</b>  <b>1518 Mallard Circle</b>  <b>Tuscaloosa, AL 35404</b>  <b>US</b></p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i></p>
<p>Applicant's registration No. with the Office</p>	

<p>State <i>(that is, country)</i> of nationality:  <b>US</b></p>	<p>State <i>(that is, country)</i> of residence:  <b>US</b></p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input type="checkbox"/> all designated States except the United States of America</p>	<p><input checked="" type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p>Name and address: <i>(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.)</i></p> <p><b>GURAU, Gabriela</b>  <b>1015 7th Avenue, Apt. 8</b>  <b>Tuscaloosa, AL 35401</b>  <b>US</b></p>	<p>This person is:</p> <p><input type="checkbox"/> applicant only</p> <p><input checked="" type="checkbox"/> applicant and inventor</p> <p><input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i></p>
<p>Applicant's registration No. with the Office</p>	

<p>State <i>(that is, country)</i> of nationality:  <b>US</b></p>	<p>State <i>(that is, country)</i> of residence:  <b>US</b></p>
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<p>This person is applicant for the purposes of:</p>	<p><input type="checkbox"/> all designated States</p>	<p><input type="checkbox"/> all designated States except the United States of America</p>	<p><input checked="" type="checkbox"/> the United States of America only</p>	<p><input type="checkbox"/> the States indicated in the Supplemental Box</p>
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<p><input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on another continuation sheet.</p>
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<b>Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>	
<i>If none of the following sub-boxes is used, this sheet should not be included in the request.</i>	
Name and address: <i>(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.)</i> <b>MACFARLANE, Douglas</b> 9 Campertown St. Brighton East 3187 Victoria, Australia	This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i>
Applicant's registration No. with the Office	
State <i>(that is, country)</i> of nationality: <b>AU</b>	State <i>(that is, country)</i> of residence: <b>AU</b>
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Name and address: <i>(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.)</i> <b>TURANJANIN, Jelena</b> 4 Westbrook Place Cairnlea 3023 Victoria, Australia	This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i>
Applicant's registration No. with the Office	
State <i>(that is, country)</i> of nationality: <b>AU</b>	State <i>(that is, country)</i> of residence: <b>AU</b>
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Name and address: <i>(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.)</i> <b>DEAN, Pamela M.</b> 56 Virginia Street Mount Waverley 3149 Victoria, Australia	This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i>
Applicant's registration No. with the Office	
State <i>(that is, country)</i> of nationality: <b>GB</b>	State <i>(that is, country)</i> of residence: <b>AU</b>
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Name and address: <i>(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.)</i> _____ _____ _____ _____	This person is: <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box 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 for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input type="checkbox"/> 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.*

1. *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 or for the purposes of the United States of America: 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 four 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 a 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" or "utility certificate of addition," the number of the parent application or parent patent or other parent grant and the date of grant of the parent patent or other parent grant or the date of filing 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 a 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)).*
- Continuation of Box IV:  
 NEEDLE, William H. (26,209); ROSENBERG, Sumner C. (28,753); KATZ, Mitchell A. (33,919); KIRSCH, Gregory J. (35,572); BECKER, Bruce H. (48,884); DECARLO, Kean J. (39,956); MEADOWS, Brian C. (50,848); CLEVELAND, Janell T. (53,848); HATHCOCK, Kevin W. (52,998); LANIER, J. Gibson (57,519); MARTY, Scott D. (53,277); SHORTELL, D. Brian (56,020); BROWN, Charley F. (52,658); CURFMAN, Christopher L. (52,787); ECHLER, Richard S. (41,006); CORNETT, David A. (48,417); ANDREWS, Cecilia M. (57,970); MILLER, Jennifer F. (56,278); ANDERSON, Joseph P. (59,245); GRAVES, John G. (62,708) and MCFADYEN, Rebecca (57,952) all of BALLARD SPAHR LLP, Suite 1000, 999 Peachtree Street, Atlanta, Georgia 30309-3915 United States of America

**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
- RU Russian Federation 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**

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

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application: regional Office	international application: receiving Office
item (1) 29 December 2008 (29.12.2008)	61/141,168	US		
item (2)				
item (3)				
item (4)				

Further priority claims are indicated in the Supplemental Box.

**Transmit certified copy:** the receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

- all items     item (1)     item (2)     item (3)     item (4)     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) 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/ .US.....

<b>Box No. IX CHECK LIST for EFS-Web filings</b> - this sheet is only to be used when filing an international application with RO/US via EFS-Web			
This international application contains the following:	Number of sheets	This international application is <b>accompanied by</b> the following item(s) ( <i>mark the applicable check-boxes below and indicate in right column the number of each item</i> ):	Number of items
(a) request form PCT/RO/101 (including any declarations and supplemental sheets) . . . . .	6	1. <input checked="" type="checkbox"/> fee calculation sheet . . . . .	1
(b) description (excluding any sequence listing part of the description, see (f), below) . . . . .	127	2. <input type="checkbox"/> original separate power of attorney . . . . .	
(c) claims . . . . .	17	3. <input type="checkbox"/> original general power of attorney . . . . .	
(d) abstract . . . . .	1	4. <input type="checkbox"/> copy of general power of attorney; reference number: . . . . .	
(e) drawings (if any) . . . . .	7	5. <input type="checkbox"/> statement explaining lack of signature . . . . .	
(f) sequence listing part of the description in the form of an <b>image file</b> (e.g. PDF) . . . . .		6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s) . . . . .	
<b>Total number of sheets</b> (including the sequence listing part of the description if filed as an <b>image file</b> ) . . . . .	158	7. <input type="checkbox"/> Translation of international application into ( <i>language</i> ): . . . . .	
(g) sequence listing part of the description		8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material . . . . .	
<input type="checkbox"/> filed in the form of an <b>Annex C/ST.25 text file</b>		9. <input type="checkbox"/> ( <i>only where item (f) is marked in the left column</i> ) copy of the sequence listing in electronic form (Annex C/ST.25 text file) not forming part of the international application but <b>furnished only for the purposes of international search</b> under Rule 13ter	
<input type="checkbox"/> WILL BE filed separately on physical data carrier(s), on the same day and in the form of an <b>Annex C/ST.25 text file</b>		10. <input type="checkbox"/> ( <i>only where item (f) is marked in the left column</i> ) 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 via EFS-Web: . . . . .	
Indicate type and number of physical data carrier(s) . . . . .		11. <input type="checkbox"/> copy of results of earlier search(es) (Rule 12bis.1(a)) . . . . .	
<b>Figure of the drawings</b> which should accompany the abstract: . . . . .	1	12. <input type="checkbox"/> other ( <i>specify</i> ): . . . . .	
<b>Language of filing</b> of the international application:		English	
<b>Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE</b>			
<i>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 request).</i>			
/Richard S. Echler/			
Richard S. Echler, Reg. No. 41,006			
29-12-2009			

For receiving Office use only			
1. Date of actual receipt of the purported international application:	REC'D PCT/PTO 29 DEC 2009		
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:			
4. Date of timely receipt of the required corrections under PCT Article 11(2):			
5. International Searching Authority (if two or more are competent): ISA / US	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid		
For International Bureau use only			
Date of receipt of the record copy by the International Bureau:			