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

SOFT ROBOTIC ACTUATORS UTILIZING ASYMMETRIC SURFACES

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This person is applicant for the purposes of: ☑ all designated States

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This person is applicant for the purposes of: ☑ all designated States

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This person is applicant for the purposes of: ☑ all designated States

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State (that is, country) of residence: US

This person is applicant for the purposes of: ☑ all designated States

Further applicants and/or (further) inventors are indicated on another continuation sheet.
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. II, 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" (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. II, 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" (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” or “utility certificate of addition,” the number of the parent application or patent of addition 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 (Rule 4.11(a)(i) and 40bis.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 (Rule 4.11(a)(ii) and 40bis 1(d)).
### 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.)

### PRIORITY CLAIM AND DOCUMENT

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

<table>
<thead>
<tr>
<th>Filing date of earlier application (day/month/year)</th>
<th>Number of earlier application</th>
<th>Where earlier application is:</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>national application:</td>
</tr>
<tr>
<td></td>
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<td>country or Member of WTO</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td>item (1)</td>
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<td>item (2)</td>
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<tr>
<td>17/09/2014</td>
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<tr>
<td>item (3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[ ] Further priority claims are indicated in the Supplemental Box.

### 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) (only if the earlier application(s) was filed with the receiving Office which, for the purposes of this international application, is the receiving Office) identified above as:
  - [ ] all items
  - [ ] item (1)
  - [ ] item (2)
  - [ ] item (3)
  - [ ] 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 if the earlier application(s) is/are available to it from a digital library:
  - [ ] 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) 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.

### 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

Form PCT/RO/101 (second sheet) (16 September 2012)
This international application contains the following:

(a) request form PCT/RO/101 (including any declarations and supplemental sheets) ........................................ 5 sheets
(b) description (excluding any sequence listing part of the description, see (f), below) ........................................ 25 sheets
(c) claims ............................................................. 5 sheets
(d) abstract ................................................................ 1 sheet
(e) drawings (if any) .................................................. 30 sheets
(f) sequence listing part of the description in the form of an image file (e.g. PDF) .................................................. 0 sheets

Total number of sheets (including the sequence listing part of the description if filed as an image file) ........................................ 66 sheets

(g) sequence listing part of the description
   □ filed in the form of an Annex C/ST.25 text file
   □ WILL BE filed separately on physical data carrier(s), on the same day and in the form of an Annex C/ST.25 text file
   Indicate type and number of physical data carrier(s) .................................................................

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):

1. □ fee calculation sheet ........................................... 1
2. □ original separate power of attorney ......................
3. □ original general power of attorney .......................  
4. □ copy of general power of attorney; reference number: .............................................................
5. □ priority document(s) identified in Box No. VI as item(s) .........................................................
6. □ Translation of international application into (language): ............................................................
7. □ separate indications concerning deposited microorganism or other biological material .............
8. □ (only where item (f) is marked in the left column) copy of the sequence listing in electronic form (Annex C/ST.25 text file) not forming part of the international application but furnished only for the purposes of international search under Rule 13ter ........................................
9. □ (only where item (f) is marked in the left column) 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: .........................................................
10. □ copy of results of earlier search(es) (Rule 12bis.1(a)) .................................................................
11. □ other (specify): ....................................................

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 request).

/ Matthew T. Fagan/
Matthew T. Fagan, Reg. No. 67,3323

1. Date of actual receipt of the purported international application: 17.09.15  17 SEP 15
2. Drawings: □ received:
   □ not received:

5. International Searching Authority (if two or more are competent):  ISA / US
6. □ 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:

Form PCT/RO/101 (last sheet - EFS) (16 September 2012)  See Notes to the request form