### INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15(5))

<table>
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<tr>
<th>National application No.</th>
<th>Country or Office of filing</th>
<th>Filing date (day/month/year)</th>
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<tr>
<th>Applicant’s or agent’s file reference</th>
<th>(Earliest) Priority date (day/month/year)</th>
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<tr>
<th>Date of request for international-type search</th>
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This international-type search report has been prepared by this International Searching Authority and is transmitted to the applicant.

This international-type search report consists of a total of ______ sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   
   a. With regard to the **language**, the international-type search was carried out on the basis of:
      
      ☐ the application in the language in which it was filed.
      
      ☐ a translation of the application into __________________________ which is the language of a translation furnished for the purposes of the international-type search.

   b. ☐ This international-type search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91.

   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II).

3. ☐ **Unity of invention is lacking** (See Box No. III).

Form PCT/ISA/201 (first sheet) (July 2019)
1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this international-type search was carried out on the basis of a sequence listing filed or furnished:
   a. (means)
      - on paper
      - in electronic form
   b. (time)
      - in the application as filed
      - together with the application in electronic form
      - subsequently to this Authority for the purposes of search

2. In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:
This international-type search report has not been established in respect of certain claims for the following reasons:

1. □ Claims Nos.:
   because they relate to subject matter not required to be searched by this Authority, namely:

2. □ Claims Nos.:
   because they relate to parts of the national application that do not comply with the prescribed requirements to such an extent that no meaningful international-type search can be carried out, specifically:

This International Searching Authority found multiple inventions in this national application, as follows:

1. □ As all required additional search fees were timely paid by the applicant, this international-type search report covers all searchable claims.
2. □ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. □ As only some of the required additional search fees were timely paid by the applicant, this international-type search report covers only those claims for which fees were paid, specifically claims Nos.:
4. □ No required additional search fees were timely paid by the applicant. Consequently, this international-type search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

□ The additional search fees were accompanied by the applicant’s protest and, where applicable, the payment of a protest fee.

□ The additional search fees were accompanied by the applicant’s protest but the applicable protest fee was not paid within the time limit specified in the invitation.

□ No protest accompanied the payment of additional search fees.

Form PCT/ISA/201 (continuation of first sheet (2)) (July 2019)
INTERNATIONAL-TYPE SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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Special categories of cited documents:

- “A” document defining the general state of the art which is not considered to be of particular relevance
- “D” document cited by the applicant in the international application
- “E” earlier application or patent but published on or after the international filing date
- “L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- “O” document referring to an oral disclosure, use, exhibition or other means
- “P” document published prior to the international filing date but later than the priority date claimed
- “T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- “X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- “Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- “&” document member of the same patent family

Further documents are listed in the continuation of Box C. Patent family members are listed in annex.

* Special categories of cited documents:

- “A” document defining the general state of the art which is not considered to be of particular relevance
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- “P” document published prior to the international filing date but later than the priority date claimed
- “T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- “X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- “Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- “&” document member of the same patent family

Date of the actual completion of the international-type search

Date of mailing of the international-type search report

Name and mailing address of the ISA/Authorized officer

Facsimile No., Telephone No.
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