

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

To:
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Date of mailing <i>(day/month/year)</i>	29 May 2020 (29-05-2020)
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Applicant's or agent's file reference
25065-1771-711652PCT

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/CA2020/050423

International filing date *(day/month/year)*
31 March 2020 (31-03-2020)

Priority date *(day/month/year)*
01 April 2019 (01-04-2019)

International Patent Classification (IPC) or both national classification and IPC
IPC: **F16D 41/12** (2006.01), **B60K 17/02** (2006.01), **B60K 17/26** (2006.01), **F16D 27/102** (2006.01),
F16D 41/16 (2006.01)

Applicant
MAGNA POWERTRAIN INC.

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. Priority
- Box No. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. Lack of unity of invention
- Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/CA
Canadian Intellectual Property Office
Place du Portage I, C114 - 1st Floor, Box PCT
50 Victoria Street
Gatineau, Quebec K1A 0C9
Facsimile No.: 001-819-953-2476

Date of completion of this opinion

28 May 2020 (28-05-2020)

Authorized officer

Robert Gruber (819) 639-7852

Box No I

Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

- the international application in the language in which it was filed.
- a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(b))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

a. forming part of the international application as filed:

- in the form of an Annex C/ST.25 text file.
- on paper or in the form of an image file.

b. furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.

c. furnished subsequent to the international filing date for the purposes of international search only:

- in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).
- on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).

4. 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.

5. Additional comments:

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-20	YES
	Claims NONE	NO
Inventive step (IS)	Claims 1-20	YES
	Claims NONE	NO
Industrial applicability (IA)	Claims 1-20	YES
	Claims NONE	NO

2. Citations and explanations:

Reference is made to the following document:

D1: US 2019/0226533 A1 (CIOC, A. ET AL.) 25 July 2019 (25-07-2019)

D1 discloses a one-way clutch assembly comprised of a clutch module and an actuator module. The actuator module includes a solenoid actuator having an energizable coil assembly and a linearly-moveable actuation component, a pivotable strut moveable between a deployed and non-deployed position in response to energization and de-energization of the coil and a strut biasing arrangement.

NOVELTY (N)

Claims 1-20 are novel under PCT Article 33(2) because the prior art does not show in one document the subject matter claimed. D1 makes reference to a first selectable one-way clutch; however, does not make reference to a second selectable one way clutch and a second coil and second active strut in combination with the first one-way clutch assembly and associated components to form a bi-directional clutch assembly capable of providing a drive connection between an input member and an output member in one or both rotational directions and it may be operable to freewheel in one or both directions. D1, nor the prior art, show these features or any subsequent features as detailed by the dependent claims and therefore all claims are considered novel.

INVENTIVE STEP(IS)

Claims 1-20 are novel and also involve an inventive step under PCT Article 33(3); the prior art does not fairly suggest the specific combination of features as claimed.

INDUSTRIAL APPLICABILITY (IA)

Claims 1-20 meet the criteria for Industrial Applicability set out in PCT Article 33(4) because the claimed invention can be made or deemed useful in industry.

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Attention is drawn to the end of paragraph [0069] where it appears to be missing text.

Attention is drawn to the top of page 33, the first sentence makes reference to a un-numbered figure.

Attention is drawn to Figure 21 and the following typographical error: “**trasnfer** torque”.