

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5781788

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Noboru TAKAGI	09/25/2019
Hirokazu KATO	09/25/2019
Rihito KANEKO	09/26/2019
Naoto HISAMINATO	09/26/2019
Hirokazu ANDO	09/25/2019
Masaaki YAMAGUCHI	09/28/2019
Hiroataka WATANABE	09/27/2019
Takahiko AOYAGI	09/26/2019
Masahiro YOSHIDA	09/27/2019
Koji NUNAMI	09/30/2019
Naoto YUMISASHI	09/30/2019
Masafumi YOSHIDA	09/30/2019

RECEIVING PARTY DATA

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Name:	AISIN SEIKI KABUSHIKI KAISHA
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16660146

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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SIGNATURE:	/KeiVona D. Gray/
DATE SIGNED:	10/22/2019

Total Attachments: 4
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ASSIGNMENT OF APPLICATION

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned inventor(s) hereby:

1) Sell(s), assign(s) and transfer(s) jointly to

1. **TOYOTA JIDOSHA KABUSHIKI KAISHA** which has a business office at
1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 Japan,

2. **AISIN SEIKI KABUSHIKI KAISHA** which has a business office at
1, Asahi-machi 2-chome, Kariya-shi, Aichi-ken 448-8650 Japan

(hereinafter referred to as "ASSIGNEES"), the entire right, title, and interest in any and all inventions and improvements disclosed in, application(s) based upon, and Patent(s) granted upon the information which is disclosed in the application entitled:

COOLING APPARATUS FOR INTERNAL COMBUSTION ENGINE

for which I(we) have executed an application for a United States Letters Patent on September 25, 26 and 28, 2019. (Application Serial No. 16/660,146 filed on October 22, 2019.)

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application, or any division, continuation, substitute or reissue thereof, to the ASSIGNEES.

3) Agree to execute all papers and documents and perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof and/or the enforcement of patents resulting from such applications.

Signed on the date(s) indicated beside my(our) signature(s).

1) Noboru Takagi Date: September 25, 2019
Name: Noboru TAKAGI

2) Hirokazu Kato Date: September 25, 2019
Name: Hirokazu KATO

3) Rihito Kaneko Date: September 26, 2019
Name: Rihito KANEKO

4) ~~Rihito Kaneko~~ Naoto Hisaminato Date: ~~September 25, 2019~~ September 26, 2019
Name: Naoto HISAMINATO *n.H. Sept. 26, 2019* *n.H. Sept. 26, 2019*

5) Hirokazu Ando Date: September 25, 2019
Name: Hirokazu ANDO

6) Masaaki Yamaguchi Date: September 28, 2019
Name: Masaaki YAMAGUCHI

7) _____ Date: _____
Name: Hirotaka WATANABE

8) Takahiko Aoyagi Date: September 25 2019
Name: Takahiko AOYAGI

9) _____ Date: _____
Name: Masahiro YOSHIDA

10) _____ Date: _____
Name: Koji NUNAMI

11) _____ Date: _____
Name: Naoto YUMISASHI

12) _____ Date: _____
Name: Masafumi YOSHIDA

Witness: Masaru Muramatsu Date: September 30, 2019

Witness: _____ Date: _____

ASSIGNMENT OF APPLICATION

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned inventor(s) hereby:

1) Sell(s), assign(s) and transfer(s) jointly to

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1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 Japan,

2. **AISIN SEIKI KABUSHIKI KAISHA** which has a business office at
1, Asahi-machi 2-chome, Kariya-shi, Aichi-ken 448-8650 Japan

(hereinafter referred to as "ASSIGNEES"), the entire right, title, and interest in any and all inventions and improvements disclosed in, application(s) based upon, and Patent(s) granted upon the information which is disclosed in the application entitled:

COOLING APPARATUS FOR INTERNAL COMBUSTION ENGINE

for which I(we) have executed an application for a United States Letters Patent on September 27 and 30, 2019. (Application Serial No. 16/660,146 filed on October 22, 2019.)

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application, or any division, continuation, substitute or reissue thereof, to the ASSIGNEES.

3) Agree to execute all papers and documents and perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof and/or the enforcement of patents resulting from such applications.

Signed on the date(s) indicated beside my(our) signature(s).

1) _____ Date: _____
Name: Noboru TAKAGI

2) _____ Date: _____
Name: Hirokazu KATO

3) _____ Date: _____
Name: Rihito KANEKO

4) _____ Date: _____
Name: Naoto HISAMINATO

5) _____ Date: _____
Name: Hirokazu ANDO

6) _____ Date: _____
Name: Masaaki YAMAGUCHI

7) Hiroataka Watanabe Date: September 27, 2019
Name: Hiroataka WATANABE

8) _____ Date: _____
Name: Takahiko AOYAGI

9) Masahiro Yoshida Date: September 27, 2019
Name: Masahiro YOSHIDA

10) Koji Nunami Date: September 30, 2019
Name: Koji NUNAMI

11) Naoto Yumisashi Date: September 30, 2019
Name: Naoto YUMISASHI

12) Masafumi Yoshida Date: September 30, 2019
Name: Masafumi YOSHIDA

Witness: _____ Date: _____

Witness:  Date: October 1, 2019