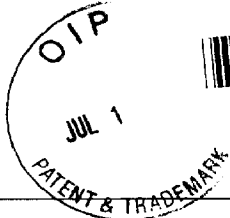


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07-26-2001



101788538

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney Docket No. 104087

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. A. Name of conveying parties:

- 1) Kouichi HARA
2) Akiharu KANAGAWA
3) Hironori MIYAKOSHI
4) Akira HATTORI
5) Nobuyuki FURUI

7-19-01

B. Additional name(s) of conveying party(ies) attached?

☐ Yes ☐ No

2. A. Name and address of receiving parties:

TOYOTA JIDOSHA KABUSHIKI KAISHA
1, TOYOTA-CHO, TOYOTA-SHI,
AICHI 471-8571 JAPAN

AISIN SEIKI KABUSHIKI KAISHA
1, ASAHI-MACHI 2-CHOME,
KARIYA-SHI, AICHI 448-6850 JAPAN

3. A. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: June 6, June 7 and June 16, 2001

B. Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. A. If this document is being filed together with a new application, the execution date of the application is: _____

B. Patent Application No.(s) 09/383,989

C. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00

B. Enclosed (Check No. 121080)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document

James A. Oliff
Dermott J. Cooke

Registration No. 27,075
Registration No. 41,685

Date: July 19, 2001

Total number of pages including cover sheet, attachments, and document: 3

07/25/2001 LHWELLER 00000146 09383989

01 FC:581

40.00 DP

PATENT
REEL: 011993 FRAME: 0115

ASSIGNMENT (Two Assignees)

(1-8) **Insert Name(s) of Inventor(s)**

(1) <u>Kouichi HARA</u>	(4) <u>Akira HATTORI</u>
(2) <u>Akiharu KANAGAWA</u>	(5) <u>Nobuyuki FURUI</u>
(3) <u>Hironori MIYAKOSHI</u>	(6) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9A) Insert Name of First Assignee	(9A) <u>TOYOTA JIDOSHA KABUSHIKI KAISHA</u>
(10A) Insert Address of First Assignee	(10A) <u>AISIN SEIKI KABUSHIKI KAISHA</u>
(9B) Insert Name of Second Assignee	(9B) <u>1, Toyota-cho, Toyota-shi, Aichi 471-8571 Japan</u>
(10B) Insert Address of Second Assignee	(10B) <u>1, Asashi-machi 2-chome, Kariya-shi, Aichi 448-6850 Japan</u>

(hereinafter designated as the Assignees) and Assignees' heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all divisions, continuations, substitutes, and reissues, and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) **Insert Identification, such as Title, Case Number or Foreign Application Number**

(11) BRAKE CONTROL APPARATUS

Attorney Docket No. 104087

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) **Insert Date of Signing of Application**

(12) on _____

(13) **Alternative Identification for filed applications**

(13) U.S. Application Serial Number 09/383,989

filed August 26, 1999

1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignees.

5) Each undersigned authorizes and requests the Director of Patents to issue any and all Letters Patents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of **OLIFF & BERRIDGE, PLC** the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

(1) Date <u>June 6, 2001</u>	Inventor Signature <u>Kouichi Hara</u> (SEAL)	
(2) Date _____	Inventor Signature _____ (SEAL)	
(3) Date <u>June 7, 2001</u>	Inventor Signature <u>Hironori Miyakoshi</u> (SEAL)	
(4) Date <u>June 7, 2001</u>	Inventor Signature <u>Akira Hattori</u> (SEAL)	
(5) Date <u>June 7, 2001</u>	Inventor Signature <u>Nobuyuki Furui</u> (SEAL)	
Date _____	Inventor Signature _____ (SEAL)	

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date <u>June 6, 2001</u>	Witness <u>Yasunori Tsuchihashi</u>
Date <u>June 7, 2001</u>	Witness <u>Shuji Moriyama</u>

ASSIGNMENT (Two Assignees)

Y/R 104087
O/R: TMT-A 98-21 US

(1-8)	Insert Name(s) of Inventor(s)	(1) <u>Kouichi HARA</u>	(4) <u>Akira HATTORI</u>
		(2) <u>Akiharu KANAGAWA</u>	(5) <u>Nobuyuki FURUI</u>
		(3) <u>Hironori MIYAKOSHI</u>	(6) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9A)	Insert Name of First Assignee	(9A)	<u>TOYOTA JIDOSHA KABUSHIKI KAISHA</u>
(10A)	Insert Address of First Assignee	(10A)	<u>AININ SEIKI KABUSHIKI KAISHA</u>
(9B)	Insert Name of Second Assignee	(9B)	<u>1, Toyota-cho, Toyota-shi, Aichi 471-8571 Japan</u>
(10B)	Insert Address of Second Assignee	(10B)	<u>1, Asashi-machi 2-chome, Kariya-shi, Aichi 448-6850 Japan</u>

(hereinafter designated as the Assignees) and Assignees' heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all divisions, continuations, substitutes, and reissues, and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11)	Insert Identification, such as Title, Case Number or Foreign Application Number	(11)	<u>BRAKE CONTROL APPARATUS</u>
		Attorney Docket No.	<u>104087</u>

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12)	Insert Date of Signing of Application	(12)	on _____
(13)	Alternative Identification for filed applications	(13)	U.S. Application Serial Number <u>09/383,989</u> filed <u>August 26, 1999</u>

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

(1)	Date	_____	Inventor Signature	_____ (SEAL)
(2)	Date	<u>June 16, 2001</u>	Inventor Signature	<u>Akiharu Kanagawa</u> (SEAL)
(3)	Date	_____	Inventor Signature	_____ (SEAL)
(4)	Date	_____	Inventor Signature	_____ (SEAL)
(5)	Date	_____	Inventor Signature	_____ (SEAL)
	Date	_____	Inventor Signature	_____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date	<u>June 20, 2001</u>	Witness	<u>Hisayo Ono</u>
Date	<u>June 20, 2001</u>	Witness	<u>[Signature]</u>