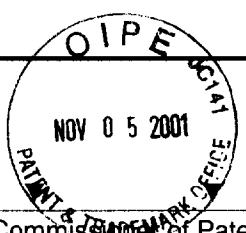


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12-10-2001



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 09/890423

101910444

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Nobuaki MIKI, Shigeo TSUZUKI,
Hiroshi ISHIGAKI, Seiji SAKAKIBARA,
Masashi HATTORI and Kazuo TAKEMOTO
11/05/01

2. Name and address of receiving party(ies):
Name: AISIN AW CO., LTD.
Internal Address: _____

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: Oct. 10, 12, 15 & 16, 2001

Street Address: 10, Takane, Fujii-cho,
Anjo-shi, Aichi-ken, 444-1192, JAPAN
City: _____ State: _____ ZIP: _____
Additional name(s) & address(es) attached? Yes No

4. Application number(s) or registration numbers(s):
If this document is being filed together with a new application, the execution date of the application is: _____
A. Patent Application No.(s)
09/890,423

B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: George A. Loud, Esquire
Internal Address: LORUSSO & LOUD
11/06/2001 HNGUYEN 00000030 09890423
02 FC:581 40.00 OP
Street Address: 3137 Mount Vernon Avenue
City: Alexandria State: VA ZIP: 22305

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41):.....\$ 40.00
 Enclosed - Any excess or insufficiency should be credited or debited to deposit account
 Authorized to be charged to deposit account
8. Deposit account number: _____

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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.
George A. Loud, Reg. No. 25,814
Name of Person Signing
Signature
05 NOV 2001
Date
Total number of pages including cover sheet, attachments, and document PATENT

REEL: 012341 FRAME: 0591

ASSIGNMENT

WHEREAS, we, Nobuaki MIKI, Shigeo TSUZUKI, Hiroshi ISHIGAKI, Seiji SAKAKIBARA, Masashi HATTORI and Kazuo TAKEMOTO of, c/o AISIN AW CO., LTD., 10, Takane, Fujii-cho, Anjo-shi, Aichi-ken, 444-1192, Japan and Masao KAWAI and Toshihiro SHIIMADO of KABUSHIKI KAISHA EQUOS RESEARCH, Goto Building, 19-12, Sotokanda 2-chome, Chiyoda-ku, Tokyo-to, 101, Japan have invented certain improvements in "AUTOMATIC TRANSMISSION CONTROL APPARATUS, AUTOMATIC TRANSMISSION CONTROL METHOD AND RECORDING MEDIUM WITH ITS PROGRAM RECORDED" set forth in an application for Patent of the United States; and

WHEREAS, AISIN AW CO., LTD., 10, Takane, Fujii-cho, Anjo-shi, Aichi-ken, 444-1192, Japan is desirous of acquiring an interest therein;

NOW THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, Nobuaki MIKI, Shigeo TSUZUKI, Hiroshi ISHIGAKI, Seiji SAKAKIBARA, Masashi HATTORI, Kazuo TAKEMOTO, Masao KAWAI and Toshihiro SHIIMADO by these presents do sell, assign and transfer unto AISIN AW CO., LTD., its successors, legal representatives, heirs and assigns, the full and exclusive right, title and interest in the United States of America said application executed on the ____ day of _____, (and we hereby authorize our attorneys, authorized to prosecute said application, to here insert the filing date and serial number of said application, when known: Serial No. 09/890,423 Filed July 31, 2001) to all Patents in the United States

which may be granted on said application, to all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Patent, all applications for Patent and all Patent therefor, to be held and enjoyed by AISIN AW CO., LTD., for its use and behoof and for its legal representatives, successors, heirs, and assigns, to the full end of the term for which said Patent are granted and any extensions thereof, as fully and entirely as the same would have been held by ourselves had this assignment and sale not been made; and for the same consideration, we hereby covenant and agree that, at the time of execution and delivery of this instrument, we hold good and full right and lawful authority to sell and convey the application for Patent above mentioned in the manner herein set forth; and for the same consideration we hereby covenant and agree that we will, whenever counsel of AISIN AW CO., LTD., or the counsel of its successors, legal representatives, heirs or assigns, shall advise that any proceeding in connection with said application for Patent, or any proceeding in connection with Patent in the United States, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Patent, or any reissue or extension of any Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of said Patent, without charge to ourselves, our successors, legal representatives, heirs and assigns, but at the cost and expense of AISIN AW CO., LTD., its successors, legal representatives, heirs and assigns; and we hereby request the Commissioner of Patents to issue said Patent to AISIN AW CO., LTD., as assignee thereof.

Nobuaki MIKI Oct. 15, 2001
Nobuaki MIKI date

Shigeo TSUZUKI Oct. 10, 2001
Shigeo TSUZUKI date

Hiroshi ISHIGAKI Oct. 15, 2001
Hiroshi ISHIGAKI date

Seiji SAKAKIBARA Oct. 16, 2001
Seiji SAKAKIBARA date

Masashi HATTORI Oct. 12, 2001
Masashi HATTORI date

Kazuo TAKEMOTO Oct. 10, 2001
Kazuo TAKEMOTO date

Masao KAWAI Oct. 16, 2001
Masao KAWAI date

Toshihiro SHIMADO Oct. 10, 2001
Toshihiro SHIMADO date