Code No. Dist 10027 (resp. elaborations)       Image: Code No.	Form PTO-1595 (Rev. 10/02)	RECO	08	-06-2003	U.S DEPARTMENT OF COMMERCE Patent and Trademark Office
Automay Docket No. = 056208/52812US       The Honorable Commissioner of Patents and Transfer and Halffull	ОМВ No. 0651-0027 (ехр. 7-29	6/30/2005) <b>03</b>			0L
To the Honorable Commissioner of Patents are rescuenced V 1. Name of conveying party(ies):         11 Meschiko ASANO, (2) Yasuo AKUTSU, (3) Shuji       2. Name and address of receiving party(ies)         12 OUCHI, (4) Kunito NAKATSURU and (5) Kaoru       2. Name and address of receiving party(ies)         13 Nature of Conveying party(ies) attached?   Yes Ø       Name: H11ACHI, LTD. a corporation organized under the isa or Japan. af O, Kanda Surugadai 4-chome, Chiyoda-ky, Tokyo 101-8010, JAPAN and         3 Nature of Conveying party(ies) attached?   Yes Ø       H1ACHI CAR ENGINEERING CO., LTD. 2477. Takaba, Hitachinaka-shi, ibaraki 312-062, JAPAN         3 Assignment         Merger         3 Assignment         Change of Name         0 Oner:         Additional name(s) & address(es) attached?   yes Ø         24. Application number(s) or patent number(s):       If this document is being filed togother with a new application, the execution date of the application is:         A. Patent Application No.(s)       B. Patent No(s).         PENDING         Authorized to be charged to Deposit Account No.         I' total Fee (37 CFF 3.41):       \$40.00         Yes Ø         Authorized to be charged to Deposit Account No.         Kreet       No         Authorized to be charged to Deposit Account No.         Kreet       Noth Mark At 2000         Authorize	Autorney Docket No.	= 056208/52612US			23 <sup>**</sup>
(1) Masahiko ASANO, (2) Yasuo AKUTSU, (3) Shuji EGUCHI, (4) Kunito NAKATSURU and (5) Kaoru UCHIYAMA       2. Name and address of receiving partyles)         2. Name and address of receiving partyles)       2. Name and address of receiving partyles)         Additional name(s) of conveying partyles) attached? □ Yes ⊠       Name: HITACHI, LTD. a corporation organized under the law of Japan, of 6, Kanda Surugadal 4-chome, Chiyoda-ky, Tokyo 101-8010, JAPAN         3. Nature of Conveying partyles) attached? □ Yes ⊠       And         △ Assignment       □ Change of Name         □ Other:       Additional name(s) & address(es) attached? □ Yes ⊠         Execution Date: (1) April 17, 2003, (2) April 18, 2003       Additional name(s) & address(es) attached? □ Yes ⊠         A. Application number(s):       If this document is being filed togothor with a new application, the execution date of the application is:         A. Patent Application No.(s)       B. Patent No(s).         PENDING       10 / 228 35 Zbdditional numbers attached? _ Yes X No         5. Name and address of party to whom correspondence concerning document should be mailed.       6. Total number of applications and patents involved: 1         7. Total Fee (37 CFR 3.11):       \$10.00 	To the Honorable Co	mmissioner of Patents and	10	2516886	original documents or copy thereof
(1) Masahiko ASANO, (2) Yasub AKUTSU, (3) Shuji         (1) Masahiko ASANO, (2) Yasub AKUTSU, (3) Shuji         (2) Child, (4) Kunito NAKATSURU and (5) Kaoru         (2) Conveyance:         (3) Nature of Conveyance:         (3) Auture of Conveyance:         (4) Assignment         (5) Security Agreement         (1) Other:         Execution Date: (1) April 17, 2003, (2) April 18, 2003         (4) Application number(s) or patent number(s):         (1) If this document is being filed together with a new application, the execution date of the application is:         (2) L 2 8 35 Zbidditional numbers attached? _ Yes X No         5. Name and address of party to whom correspondence concerning document should be mailed:         (7) Total Pee (37 CFR 3.41):       \$ 40.00         (2) L 2 8 35 Zbidditional numbers attached? _ Yes X No         5. Name and address of party to whom correspondence concerning document should be mailed:         (2) Crowell & Moring LLP intellectual Property Group P.O. Box 14300         (4) L 2 8 35 Zbidditional numbers attached? _ Yes X No         5. Name and address of party to whom correspondence concerning document should be mailed:         (7) Total Pee (37 CFR 3.41):       \$ 40.00	1. Name of conveying	g party(ies):			306 10/6
UCHYAMA       Name: HITACHI, LTD. a corporation organized under the law of Japan, of 6, Kanda Surugadai 4-chome, Chiyoda-ky, Tokyo 101-3010, JAPAN         Additional name(s) of conveying party(ies) attached?   Yes & ItaCHI CAR ENGINEERING CO., LTD. 247, Takaba, Hitachinaka-shi, Ibaraki 312-0062, JAPAN         Additional name(s) a conveyance:       Ibaraki 312-0062, JAPAN         Additional name(s) & conveyance:       Ibaraki 312-0062, JAPAN         Additional name(s) & address(es) attached?       Iyes & ItaCHI CAR ENGINEERING CO., LTD. 247, Takaba, Hitachinaka-shi, Ibaraki 312-0062, JAPAN         Additional name(s) & address(es) attached?       Iyes & Itached?         Other:       Additional name(s) & address(es) attached?       Iyes & Itached?         Execution Date: (1) April 17, 2003, (2) April 18, 2003       Itached?       Iyes & Itached?       Iyes & Itached?         If this document is being filed together with a new application, the execution date of the application is:       A. Patent Application No.(s)       B. Patent No(s).         PENDING       Iback 332       Iback 332       Iback 332         If this document is being filed together with a new application, the execution date of the application is:       A. Patent Application No.(s)       B. Patent No(s).         PENDING       Iback 32       Iback 32       Iback 32       Iback 34000         If Ital Property Group P.O. Box 14300       B. Deposit Account No. 05-1323       Iback 32000	(1) Masahiko ASANO, (2) Yasuo AKUTSU, (3) Shuji			2. Name and addres	
Iaw of Japan, of 6, Kanda Surugadai 4-chome, Chiyoda-ky, Tokyo 101-8010, JAPAN         Additional name(s) of conveying partylies) attached? [ Yes 3]         Additional name(s) of conveyance:         Additional name(s) of conveyance:         Additional name(s) attached? [ Yes 3]         Assignment       Image: Conveyance:         Additional name(s) attached?       Yes 3]         Assignment       Image: Conveyance:         Other:       Conveyance:         Converting the state of th			lora		
Additional name(s) of conveying partylies) attached? [] Yes []       HITACHI CAR ENGINEERING CO., LTD.         Noture of Conveyance:       Lattachinaka-shi, lbaraki 312-0062, JAPAN         Assignment       Image of Name         Security Agreement       Image of Name         Other:       Additional name(s) & address(es) attached? [] yes []         Execution Date: (1) April 17, 2003, (2) April 18, 2003       Additional name(s) & address(es) attached? [] yes []         If this document is being filed together with a new application, the execution date of the application is:       A. Patont Application No.(s)         Bending       Image of Difference       B. Patent No(s).         PENDING       Image of Difference       Image of Difference         10       Image of Difference       Image of Difference         20       A. Application number(s):       If this document is being filed together with a new application, the execution date of the application is:         A. Patont Application No.(s)       B. Patent No(s).         PENDING       Image of Difference         Image of Moring LLP       Image of Corespondence concerning document should be mailed:         Image of Moring LLP       Image of Difference         Intellectual Property Group P.O. Box 14300       Image of Difference         Statement and Signature.       Image of Difference         To the best of my knowle				law of Japan, of 6, K	anda Surugadai 4-chome, Chiyoda-ky,
No       HITACHI CAR ENGINEERNIG CO., LTD.         3. Nature of Conveyance:       2477, Takaba, Hitachinaka-shi, Ibaraki 312-0062, JAPAN         Assignment       Change of Name         Other:       Additional name(s) & address(es) attached?       yes         Zecution Date: (1) April 17, 2003, (2) April 18, 2003       Additional name(s) & address(es) attached?       yes         Additional name(s) or patent number(s):       It is document is being filed together with a new application, the execution date of the application is:         A. Aptication number(s) or patent number(s):       It is document is being filed together with a new application, the execution date of the application is:         A. Patent Application No.(s)       B. Patent No(s).         PENDING       (0         10       16,28,35         20,428,35       Zadditional numbers attached?Yes         X. No       8. Total number of applications and patents involved: 1         7. Total Fee (37 CFR 3.41):       \$40,00         With this Assignment to Deposit Account       No. 51323         Crowell & Moring LLP       Authorized to be charged to Deposit Account         Intellectual Property Group       P.O. Box 14300         7: Total Fee (37 CFR 3.41):       \$40,00         Statement and Signature.       7. Total Account No.         7: Total Fee (37 CFR 3.41):       \$40,00		_	_		and
3. Nature of Conveyance:       2477, Takaba, Hitachinaka-shi, Ibaraki 312-0062, JAPAN         2 Assignment       Image of Name         3. Security Agreement       Change of Name         3. Other:       Additional name(s) & address(es) attached? Image of Name         4. Application Date: (1) April 17, 2003, (2) April 18, 2003       Additional name(s) & address(es) attached? Image of Name         4. Application number(s) or patent number(s):       If this document is being filed together with a new application, the execution date of the application is:         A. Patent Application No.(s)       B. Patent No(s).         PENDING       Image of Application and patents involved: 1         7. Total Page of Party to whom correspondence concerning document should be mailed.       6.Total number of applications and patents involved: 1         7. Total Fee (37 CFR 3.41):       \$40.00         8. Deposit Account No. 05-1323         1. Authorized to be charged to Deposit Account No. 05-1323         1. Authorized to be charge of paying by Deposit Account No. 05-1323         1. Authorized to be charge of paying by Deposit Account No. 05-1323         2. Statement and Signature.         7. 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.         3. Statement and Signature.         7. Total NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT:		reying party(ies) attached?	es 🖂	HITACHI CAR ENGI	INEERING CO., LTD.
Security Agreement       □ Change of Name         ○ Other:       Additional name(s) & address(es) attached? □ yes ⊠ no         □ Other:       Execution Date: (1) April 17, 2003, (2) April 18, 2003         and (3) April 19, 2003       and (3) April 19, 2003         and (3) April 19, 2003       and (a) April 19, 2003         and (a) April 19, 2003       and (a) April 19, 2003         and (a) April 19, 2003       and (a) April 19, 2003         and (a) April 19, 2003       B. Patent No(s).         Fit is document is being filed together with a new application, the execution date of the application is:       A. Patent Application No.(s)         B. Patent No(s).       PENDING         (1) L 2 & 35 Zbdditional numbers attached? _ Yes X No         5. Name and address of party to whom       6. Total number of applications and patents involved: 1         crowell & Moring LLP       7. Total Fee (37 CFR 3.41): \$40.00         Mithellectual Property Group       P.O. Box 14300         VTashington, D. C. 20044-4300       8. Deposit Account No.         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.         Vincent / Sunderdick Reg. No. 29,004       July 29, 2003         Vincent / Sunderdick Reg. No. 29,004       Date         ToTAL NUMBER OF PAGES INCLUDING C	3. Nature of Conveya	ance:			
□ details of them       □ one         □ other:       □ other:         Execution Date: (1) April 17, 2003, (2) April 18, 2003         and (3) April 19, 2003         4. Application number(s) or patent number(s):         If this document is being filed together with a new application, the execution date of the application is:         A. Patent Application No.(s)       B. Patent No(s).         PENDING       10 14 28 35 Zbdditional numbers attached? _ Yes X No         5. Name and address of party to whom correspondence concerning document should be mailed:       6. Total number of applications and patents involved: 1         7. Total Fee (37 CFR 3.41):       \$ 40.00         Yess Attach       0 Authorized to be charged any underpayment in connection with this Assignment to Deposit Account No.         Statement and Signature.       1 Authorized to be charged to Deposit Account No.         9 Statement and Signature.       Do NOT USE THIS SPACE         9 Statement and Signature.       July 29, 2003         7 total NumBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT:         Mail documents to be proorded with required cover sheet information to: Cormitasioner of Patents and Yrademarks	🛛 Assignment	🗋 Merger			
Other:  Execution Date: (1) April 17, 2003, (2) April 18, 2003 and (3) April 19, 2003  4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is:     A. Patent Application No.(s)     PENDING     // 2.8 35 Zbdditional numbers attached? _ Yes X No 5. Name and address of party to whom     correspondence concerning document     should be mailed:     Crowell & Moring LLP     Intellectual Property Group     P.O. Box 14300     Wrashington, D.C. 20044-4300     Sr2003.487NE 000015 1628352     Crowell & Moring LLP     Intellectual Property Group     P.O. Box 14300     Washington, D.C. 20044-4300     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,     Sunderdick Reg. No. 29,004     TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT:     Mail documents to be recorded with required cover sheet information to:     Commissioner of Patents and Yrademarks     Mail Stop Assignment to Degivere Sevices	Security Agreement	Change of Na	me		
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5. Name and address of party to whom correspondence concerning document should be mailed:       6. Total number of applications and patents involved: 1         7. Total Fee (37 CFR 3.41):       \$40.00         © Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 05-1323         © Authorized to be charged to Deposit Account         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.         July 29, 2003         Vincent J Sunderdick Reg. No. 29,004         TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT:         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks.	10,6	28 35 ZAdditional	numbers	attached? _ Yes X	No
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Intellectual Property Group P.O. Box 14300 Washington, D.C. 20044-4300 <ul> <li>Authorized to be charged to Deposit Account</li> <li>Deposit Account No.</li> <li>(Attach dupl. copy of this page if paying by Deposit Account)</li> </ul> 5/2003 MPTNE         000001% 10628352         B. Deposit Account No.         (Attach dupl. copy of this page if paying by Deposit Account)           5/2003 MPTNE         000001% 10628352         DO NOT USE THIS SPACE           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         July 29, 2003           Mund         July 29, 2003         Date           Yincent J Sunderdick Reg. No. 29,004         Date           TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT: <li>Mail documents to be recorded with required cover sheet information to: Commissioner of Patients and Trademarks Mail Stop Assignment Recordation Services</li>				🛛 Enclosed. Pleas	se charge any underpayment in connection
Washington, D.C. 20044-4300       8. Deposit Account No. (Attach dupl. copy of this page if paying by Deposit Account)         5/2003 #9YRME       000001% 10628352         (Attach dupl. copy of this page if paying by Deposit Account)         C:8021       40.00 CP         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.         ///wait       July 29, 2003         Vincent J/ Sunderdick       Reg. No. 29,004         TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT:         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services	Intellectual Property Group			Authorized to be	e charged to Deposit Account
5/2003 /BYRNE       000001% 10628352       (Attach dupl. copy of this page if paying by Deposit Account)         C:8021       40.00 00       DO NOT USE THIS SPACE         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.         ////////////////////////////////////			1	8. Deposit Account No	).
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 July 29, 2003 Uncent J. Sunderdick Reg. No. 29,004 TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT: Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P O Box 1450	5/2003 BBYRNE 0000019	6 10628352		(Attach dupl. copy of th	his page if paying by Deposit Account)
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 July 29, 2003 Vincent J Sunderdick Reg. No. 29,004 TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT: Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services	C:8921	40.00 00		ISE THIS SPACE	
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Juiv 29, 2003         Vincent & Sunderdick       Reg. No. 29,004         TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT:         Mail documents to be recorded with required cover sheet information to:         Commissioner of Patents and Trademarks         Mail Stop Assignment Recordation Services         P O Box 1450	To the best of my know		ng informa	tion is true and correct ar	nd any attached copy is a true copy of the
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Alexandria, VA 22313-1450		Mail documents to b Comm Mail Sto	e recorded issioner of op Assignn P. (	with required cover sheet in Patents and Trademarks nent Recordation Services D. Box 1450	formation to: ;
			Alexandri	a, VA 22313-1450	

PATENT REEL: 014339 FRAME: 0898

## ASSIGNMENT

(譲渡証)

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to the below named inventor(s), citizens of Japan by HITACHI, LTD., and HITACHI CAR ENGINEERING CO., LTD., corporations organized under the laws of Japan,

located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 2477, Takaba, Hitachinaka-shi, IBARAKI 312-0062, Japan, respectively,

receipt of which is hereby acknowledged, we, the below named inventor(s), do hereby sell and assign to said HITACHI, LTD., and HITACHI CAR ENGINEERING CO., LTD.,

their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

## DEVICE FOR CONTROLLING A VEHICLE

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., and HITACHI CAR ENGINEERING CO., LTD.,

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD., and HITACHI CAR ENGINEERING CO., LTD.

Signed on the date(s) indicated aside signatures:

	INVENTOR(S) (発明者フルネームサイン)	Cute Signed (署名日)
1)	maschiko asano	4/17/ Joc 3
2)	yasuo akuteu	4/18/2003
3)	Slugi Gynchit	4/18/2003
4)	Kinite Rababurn	4/19/2003
5)	)Laone adrigana	4/19/2003
6)	/	
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9)		
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**RECORDED: 07/29/2003**