Rec'd PCT/PTO 09 AUG 2002

Atty Docket No.: 223280US3XPCT 08-27-20	
FORM PTO 1505	
To the Honorable Commissioner of Pater	d Original doguments on come them of
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Kiyomi NAKAKITA Takayuki FUYUTO Kazuhisa INAGAKI Yoshihiro HOTTA Additional name(s) of conveying party(fes) attached? Kazuhiro AKIHAMA Minaji INAYOSHI Ichiro SAKATA Yeshihiro HOTTA Additional name(s) of conveying party(fes) attached? Yes No	1) KABUSHIKI KAISHA TOYOTA CHUO Name: KENKYUSHO 2) TOYOTA JIDOSHA KABUSHIKI KAISHA Address: 1) 41-1, Aza Yokomichi, Oaza Nagakute, Nagakute-cho, Aichi-gun, Aichi-ken 480-1192, Japan
3. Nature of Conveyance:	2) 1, Toyota-cho, Toyota-shi, Aichi-ken
■ Assignment □ Merger □ Security Agreement □ Change of Name □ Other	471-8571, Japan
Execution Date: 06/07/02; 06/10/02; 06/10/02; 06/11/02; 06/10/02; 06/10/02; and 06/18/02	Additional name(s) and address(es) attached? Yes No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application, the ex	1
A. Patent Application No.(s)	B. Patent No.(s)
10/181,784	
Additional numbers attache	d? ☐ Yes ■ No
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total applications and patents involved: 1
	7. Total fee (37 CFR 3.41): \$40.00
	Enclosed
22850	☐ Authorized to be charged to deposit account
22030	8. Deposit account number: 15-0030 (Attach duplicate copy of this page if paying by deposit account)
DO NOT USE TH	IS SPACE
9. Statement and signature	
To the best of my knowledge and belief, the foregoing information copy of the original document.	is true and correct and any attached copy is a true
C. Irvin McClelland Mullida Name of Person Signing Signa	
Registration Number: 21,124 Registration	r Sachar n No. 34,423
Total number of pages including	this cover sheet: 3
Do not detach the	is portion
Mail documents to be recorded with required cover sheet information	
Commissioner of Patents Box Assignm Washington, D.	nents

PATENT REEL: 13213 FRAME: 0803

Assignment of Application

Page 1 of 2

	WHEREAS, I (WE)	1) Kiyomi NAKAKITA; 2) Takayuki FUYUTO; 3) Kazuhisa INAGAKI;	
IAMES		4) Yoshihiro HOTTA; 5) Kazuhiro AKIHAMA; 6) Minaji INAYOSHI all of:	
S OF ENTORS:		c/o Kabushiki Kaisha Toyota Chuo Kenkyusho, 41-1, Aza Yokomichi, Oaza Nag	gakute,
		Nagakute-cho, Aichi-gun, Aichi-ken 480-1192, Japan; and	<u> </u>
		7) Ichiro SAKATA of:	
		c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho, Toyota-shi, Aichi-ken 471-	-8571,
		Japan	
		, re:	spectively,
I:	have invented certain no	ew and useful improvements in: DIRECT INJECTION TYPE INTERNAL COMB	USTION
	ENGINE		
D		n for Letters Patent was executed on June 7, 10, 11, and 18, 200	2
	(Application No. 1	0/181,784 , filed July 22, 2002), and
OF EE		KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO FOYOTA JIDOSHA KABUSHIKI KAISHA	
	(hereinafter referred to	as "ASSIGNEE") having a place of business at: 1) 41-1, Aza Yokomichi, Oaza Na	igakute,
	Nagakute-cho, Aichi-g	un, Aichi-ken 480-1192, Japan; and 2) 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8:	571, Japan
		the entire right, title and interest in and to said invention and in and to any Letters in the United States and its territorial possessions and in any and all foreign count	
		RE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof	

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

10/01

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which 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.

Date: June 7, 2002	Kiyomi nakahita
Date: /June 10, 2002	(Signature of Inventor) Kiyomi NAKAKITA Takayuki Fuyuta (Signature of Inventor) Takayuki FUYUTO
Date: / June 10, 2002	Kazuhisa Inagaki (Signature of Inventor) Kazuhisa INAGAKI
Date: June 11, 2002	Gignature of Inventor) Yoshihiro HOTTA
Date: June 10, 2002	(Signature of Inventor) Kazuhiro AKIHAMA
Date: / June 10, 2002 June 18 2002	(Signature of Inventor) Minaji INAYOSHI
June 18 2002 Date: - June 10. 2002 Relite M. I.	(Signature of Inventor) Ichiro SAKATA
Date:	(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

ATTORNEYS AT LAW FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VIRGINIA 22202

10/01

RECORDED: 08/09/2002

REEL: 13213 FRAME: 0805

PATENT