Mail Stop: Assignments Recordation Services RE Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	CORDATION FORM COVER SHEET U.S. DEPARTMENT OF COMM PATENTS ONLY Patent and Trademark
	Attorney Docket No. 120454
Please record the attached document. Total number of pages including cover sheet.	attachments, and document: 2
Hideaki OSHIMA Satoru KOMATSU Hiroshi KURIBAYASHI Tomoyuki FUKUMARU Tatsuo MATSUSHITA Additional name(s) of conveying party(les):	MINATO-KU, TOKYO 105-8552 JAPAN
	B. Additional name(s) & address(cs) attached? Tger
A. Patent Application No.(5) 29/209,3	50 B. Patent No.(s)
	NDOWPANE WITH PLANER ANTENNA ELEMENT condence 6. Total number of applications and patents involved: 1
Name: <u>James A. Oliff</u>	7. Please charge Deposit Account No. 15-0461 total fee (37 CFR 3.41) in the amount of \$40.00.
Address: OLIFF & BERRIDGE, PLC P.O. Box 19928 Alexandria, VA 22320 Phone Number: 703-836-6400 Fax Number: 703-836-2787	Credit any overpayment or charge any underpayment to deposit account number 15-0461.
Statement and signature.	
To the best of my knowledge and belief, the the original document. James A. Oliff Regis	Tration No. 27,075 Date: November 24, 2004 Iration No. 38,565

PATENT REEL: 015408 FRAME: 0848 04-11-24:17:13 :SUGIMURA PATENT

:03	358	00508	
不	1231	JA /133	

		(1)	Hiđeaki,	OSHIMA	(\$	_Tats	uo Matsushi	UTA	
L-8)	Insert	(2)	Satoru R	COMPATISU	(6				
	Name(s) of [aventor(s)	(3)		KURTBAYA					
		(4)	Tomoyuki	FUKUMAR	(2)		· _ ·		
)	(asert Name of	to each	of the undersign	od, each unders	igned agrees	o essign, e	nd hereby does ass	le consideration pa ign, transfer and st IDA MOTOR CX	:t
D)	Assignee Insert Address of	(6) (G)	1-7, Kalga	n 2 chom	e. Minat	0ku. '	ed and Hon Tokyo 105=8	DA MOTOR CO 552 Japan 6 107-8556	 ., 1
•	Assignee	(10)©	I-1' Minam	u-Aovana	2-chome	, Minai	o-ku, Toky	<u>6 107-8556</u>	_Jar
		the ent inventi divisio	ire right, title and on, and in all appl stal, continuation,	interest for the lications for par substitute, and	Volted States text including reissue applic	of America any and all atlon(s), an	essors, assigns and i a as defined in 35 t i provisional, non- id all Leuers Paren a lovention known	r extensions	
t)	Insert	(11)	Vehicle	Windowps	ane with	Planes	. Antenna E	lement	
	Identification auch as Title, Case			. 1					
	Number, or Foreiga Application Number	(Attour	er Docket No	120656					_
	1-ppinamon trament							ed States of Ameri	
		OU eAD	data herewith or		come an app	curemont for	patent til tite Onio	eo 21xo2 of Villeti	CS.
)	Insert Data of Signing of	(12)	on <u>October</u>	B' 0001	- J 37	76 6	2006		
		1121			na wavemb	er 10, 4	2004		
	Application	4,	on <u>October</u>	0, 200 - ai	THE THE PERIOD				
)	Application Alternative					9,350			
\$) \$\$ue :	Alternative Identification for filed applications 1) Each undersigned agrees applications for the invention	(13) filed s to execu	U.S. application ! July 1 ts all papers uccess potent(s) issuing	Scrial Number 5, 2004	29/20	<u>application</u>	and any continuin	g, divisional or action with such	
istant of the second of the se	Alternative Identification for filed applications 1) Each undersigned agrees	filed s to execute, and any sto execute s to execute s to execute s to execute s to perfort s to perfort s to has s beirs, au y grants the	U.S. application! July 1 Its all papers ucces patent(s) istaining deam necessary. Its all papers neces raft, or any paton ig evidence and go te all papers and de mileo for Protoni m all affirmative in patent to the Assi- requests the Com- salgnee, as Assign not executed, and custours, assigns to the firm of OLIFF &	Serial Number 5, 2004 ssary in connect thereon, and allowing forward which may give a which may give of the entire will not execute and legal repressibilities.	29/20 tion with any so to exceute tion with any cites in the tits up a different any a different to issue: a interest, and the, any agreet centatives. LC the power	application steparate ass interference it thereon, for trance, ct which makes large to obtain, s my and all obvenants ments in cor to insert on	is coments in come which may be done the invention, and ay be recently in ements. The invention of confirmation in the fail right in the install, and this assignment on this assignment on this assignment on this assignment of the confirmation in	clared concerning at to cooperate with connection with a by relatue or the United States by to convey the lagrees that this ay further	 h
spue : dient depp dessi des c exemi des in digent multic	Alternative Identification for filed applications 1) Each undersigned agrees applications for the invention ions and patents at the Assig 2) Each undersigned agrees lication or confinention or dignee in avery way possible 1 3) Each undersigned agrees or provisions of the internation of the internation of green agrees or provisions of a valid Unit 5) Each undersigned authors from said application(s) in interest herein assigned, and thear is hinding on him and his 6) Each undersigned hereby action that may be necessary	filed s to execute n, and any sto executivision the n obtains s to executivision the sto executivision the sto executivision the States rizes and it the said A that he has s beirs, so y greats th or desirah	U.S. application! July 1 to all papers necessary. to all papers necessary. to all papers necessary. to all papers and of entlos for Protono m all affirmative patent to the Assi requests the Comm. salgence, as Assign not executed, and cuessors, assigns a le firm of OLAFF a le in order to com-	Serial Number 5, 2004 ssary in connect thereon, and almost in connect to release applying forward without the same which may give. almost of the entire will not execute will not execute the play with the rainal legal representations.	29/20 tion with any so to execute tion with such interest any are in the such interest and in the such interest to issue a line rest, any agreet tentatives. Le the power les of the Unit	application see interference it thereon, for the interference continuity agreements to obtain, and all it obvious in correct on the interference collections of the interference collections o	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	clared concerning at to cooperate with connection with a by relatue or the United States by to convey the lagrees that this ay further	
epp epp Assi ms c cami ding re in gen relate	Alternative Identification for filed applications 1) Each undersigned agrees applications for the inventior items and patents at the Assig 2) Each undersigned agrees lication or continuation or di ignee in away way possible i 3) Each undersigned agrees are provisions of the internatio 4) Each undersigned agrees ination a grant of a valid Unit 5) Each undersigned author g from said application(s) matterest herein assigned, and the ear is bluding on him and his 6) Each undersigned hereby ation of this document.	filed s to execute, and any gate may a s to executivision the s to execute and Converted States stores and a the said A hat he has s beirs, so y greats the call by the	U.S. application! July 1 Its all papers ucces patent(s) istoing deem necessary. Its all papers neces rates, or any patent go evidence and go to all papers and de mittee for Protent mall affirmative realization to the Assi requests the Comm salgace, as Assign not executed, and outstours, assigns to the firm of OLIFF a de in order to com- undersigned on the	Serial Number 5, 2004 ssary in connect thereon, and almost in connect to release applying forward without the same which may give. almost of the entire will not execute will not execute the play with the rainal legal representations.	29/20 tion with any so to execute tion with such interest any are in the such interest and in the such interest to issue a line rest, any agreet tentatives. Le the power les of the Unit	application see interference it thereon, for the interference continuity agreements to obtain, and all it obvious in correct on the interference collections of the interference collections o	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	clared concerning at to cooperate with connection with a by relatue or the United States by to convey the lagrees that this ay further	
sue : licat epp Assi ms (comi iltim gem nzific ordai	Alternative Identification for filed applications 1) Each undersigned agrees applications for the inventior itons and patents at the Assig 2) Each undersigned agrees lication or confinention or di gnee in avery way possible i 3) Each undersigned agrees are provisions of the interestic 4) Each undersigned agrees nation a grant of a valid Unit 5) Each undersigned author g from said application(s) monators herein assigned, and the first herein assigned, and the first herein assigned hereby attent herein assigned hereby attent that may be necessary tion of this document. In witness whereof, exceut	filed s to execute the same store and so execute the same store and store and store and store said. A hat he has a beirs, so y greats the said by the	U.S. application! July 1 to all papers uccess feet issuing deam necessary. to all papers necess feet, or any paten ig evidence and ge to all papers and desirate for Protent mall affirmative patent to the Assi requests the Comm salganes, as Assign not executed, and cuessors, assigns to the firm of OLIFF a de in order to com undersigned on	Serial Number 5, 2004 ssary in connect thereon, and allowers in connect for rolssue applying forward without which may gree. In of industria acts which may gree. In the continue of the cuttinue of the cuttinue of the cuttinue of the cuttinue will not execute the Bekuinge, purply with the ratification of the date(s) oppose the date	29/20 tion with any so to execute tion with such interest any are in the such interest and in the such interest to issue a line rest, any agreet tentatives. Le the power les of the Unit	application steparate assistance, it thereon, it thereon, it thereon, it thereon, it which multar agree to obtain, it opviously and all it opviously and all it opviously are to insert on the States Persigned as Label.	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	clared concerning and to cooperate with connection with a by release or the United States at to convey the lagrees that this my further ark Office for	
sue : licat opp Assi ms c camb iltim co la gem ratifica de ce e	Alternative Identification for filed applications 1) Each undersigned agrees applications for the inventior tions and patents at the Assig 2) Each undersigned agrees lication or continuation or di Ignee in avery way possible i 3) Each undersigned agrees are provisions of the internatio 4) Each undersigned agrees mation a great of a valid Unit 5) Each undersigned author grow said application(s) m terrest herein assigned, and the ear is binding on him and his 6) Each undersigned hereby ation of this document. In witness whereof, exceut	filed s to execute the same store and so execute the same store and store and store and store said. A hat he has a beirs, so y greats the said by the	U.S. application! July 1 It all papers uccess patent(s) issuing learn necessary, to all papers necessary, to all papers and of the second of	Serial Number 5, 2004 ssary in connect thereon, and almost appoint for rolesse appoint for rolesse appoint for rolesse appoint for rolesse are which may gree. almost which may gree. almost of the entire will not executed legal represe Britanner, purply with the rather date(s) appoint Signature	29/20 tion with any so to execute tion with any plication become any and Property or be necessary tents to issue a contactives. Let the power less of the Unit power that the Unit power less of the Unit power that the contactives.	application steparate assistance, it thereon, it thereon, it thereon, it thereon, it which multar agree to obtain, it opviously and all it opviously and all it opviously are to insert on the States Persigned as Label.	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	clared concerning and to cooperate with connection with a by release or the United States lat to convey the lagrees that this my further ark Office for	
sue : lient epp Assi ms (comi ilting mrific cordai	Alternative Identification for filed applications 1) Each undersigned agrees applications for the inventior tions and patents at the Assig 2) Each undersigned agrees lication or continuation or di Ignee in avery way possible i 3) Each undersigned agrees are provisions of the internatio 4) Each undersigned agrees mation a great of a valid Unit 5) Each undersigned author grow said application(s) m terrest herein assigned, and the ear is binding on him and his 6) Each undersigned hereby ation of this document. In witness whereof, exceut	filed as to execute, and any take may be sees to execute the sees of the sees of the said A hat he has a heira, au y greats the of desirable the said A hat he has a heira, au y greats the said by th	U.S. application! July 1 Its all papers ucces patent(s) istaining deem necessary. Its all papers neces patent(s) istaining deem necessary. Its all papers neces gevidence and go to all papers and de mitoe for Protect mail affirmative in patent to the Assi- requests the Com- salgnee, as Assign not executed, and continuous assigns to the firm of OLIFF a ite in order to com- undersigned on Inventor Inventor	Serial Number 5, 2004 ssary in connect thereon, and all sary in connect the rolssue appoint forward without the following forward without which may gree nitrations of Industria acts which may gree of the entire will not excound legal represse Bernange, purply with the related acts opposite the date(s) opposite Signature	29/20 tion with any so to execute tion with any plication become any and Property or be necessary tents to issue a contactives. Let the power less of the Unit power that the Unit power less of the Unit power that the contactives.	application steparate assistance. Intercore. or which make the obtain, a constant in core to insert on the States Persigned as a core of the core of t	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	clared concerning and to cooperate with connection with a by relasue or the United States but to convey the it agrees that this ay further ark Office for (SEAL)	 h
sue : licat depp Assi ims c comi stim gen mrific condai te	Alternative Identification for filed applications 1) Each undersigned agree applications for the inventior ions and patents at the Assigned agrees lication or confinention or dignee in every way possible 1 3) Each undersigned agrees provisions of the internation agreed agrees antion a grant of a valid Unit 5) Each undersigned author from said application (s) to a series therein assigned, and there is binding on him and his 6) Each undersigned hereby attom that may be necessary item of this document. In witness whereof, exceut October 8, 20 November 16,	filed as to execute, and any take may be sees to execute the sees of the sees of the said A hat he has a heira, au y greats the of desirable the said A hat he has a heira, au y greats the said by th	U.S. application! July 1 Its all papers necessive potent(s) issuing deam necessary. Its all papers necessary. Its all papers necessary. Its all papers necessary. Its all papers and governed and papers and gentles and gentles and gentles for Protentian all affirmative patent to the Assignot executed, and cuctaors, assigns as it firm of OLIFF and its in order to communication. Inventor Inventor Inventor Inventor Inventor	Serial Number 5, 2004 ssary in sonneon thereon, and allowers in connect to reliance appoint forward who councits and it is not feducitia acts which may gree. significant of the entire will not excound legal repress Bekkulnes, ply with the reliance of the date(s) opposition o	29/20 stion with any so to exceute tion with any sile attention that or perform any a life property or be necessary tents to issue: a interest, and the any agreet the softhe Unit of the	application steparate assistance. Intercore. or which make the obtain, a constant in core to insert on the States Persigned as a core of the core of t	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	clared concerning and to cooperate with connection with a by release or the United States the to convey the i agrees that this my further urk Office for (SEAL) (SEAL)	
sque : ilicat depp Assi ims c cami ims in ignm nzific te te	Alternative Identification for filed applications 1) Each undersigned agree applications for the inventior ions and patents at the Assigned agrees lication or confinention or dignee in every way possible 1 3) Each undersigned agrees provisions of the internation agreed agrees antion a grant of a valid Unit 5) Each undersigned author from said application (s) to a series therein assigned, and there is binding on him and his 6) Each undersigned hereby attom that may be necessary item of this document. In witness whereof, exceut October 8, 20 November 16,	filed as to execute, and any take may be sees to executivision the sees to executivision Converted States and the has a being, any greats the of desirable of desirable desirabl	U.S. application! July 1 It all papers necessary. It all papers and go It all affirmative patent to the Assi requests the Comm. Salghee, as Assign not executed, and coessary, assigns to It firm of OLIFF a it in order to comm. Inventor Inventor Inventor Inventor Inventor	Serial Number 5, 2004 ssary in connect thereon, and all sary in connect to rolssue appoing forward without the may give and industrial which may give and legal repressible Bekutner, will not execute the date(s) opposite the date(s) opposi	29/20 stion with any so to exceute tion with any sile attention that or perform any a life property or be necessary tents to issue: a interest, and the any agreet the softhe Unit of the	application steparate assistance. Intercore. or which make the obtain, a constant in core to insert on the States Persigned as a core of the core of t	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	cetion with such clared concerning ad to cooperate wit connection with a by release or the United States in to convey the i agrees that this ay further uk Office for (SEAL) (SEAL) (SEAL)	 h
istant of the second of the se	Alternative Identification for filed applications 1) Each undersigned agree applications for the inventior ions and patents at the Assign 2) Each undersigned agrees lication or confinention or dignee in avery way possible 1 3) Each undersigned agrees provisions of the internation agreet of a valid Unit 5) Each undersigned author after a said application(s) material herein assigned, and if ear is binding on him and his 6) Each undersigned hereby attent that may be necessary into of this document. In witness whereof, exceut October 8, 20 November 16,	filed as to execute, and any take may be seen to execute the states and a fize and the has a beirs, as yer desirable the said A first he has a beirs, as yer desirable the said A first he has a beirs, as yer desirable the said A first he has a beirs, as yer desirable the said A first he has a beirs, as yer desirable the said by the code and by the code a first he c	U.S. application! July 1 Its all papers ucces patent(s) istaining deem necessary. To all papers neces patent of any patent g evidence and g to all papers and d emitoe for Protect m all affirmative in patent to the Assist requests the Comm salgnee, as Assign not executed, and constaurs, assigns to the firm of OLIFF a ite in order to com undersigned on Inventor Inventor Inventor Inventor Inventor Inventor	Serial Number 5, 2004 stary in connect thereon, and all stary in connect for rolssus appoint forward without which may gnee. In of lodustria acts which may gnee of the entire will not excount legal repress. Beautiful, with the rational distance, pur with the rational start which the rational start which the rational start with the rational start with the sta	29/20 stion with any so to exceute tion with any sile attention that or perform any a life property or be necessary tents to issue: a interest, and the any agreet the softhe Unit of the	application steparate assistance. Intercore. or which make the obtain, a constant in core to insert on the States Persigned as a core of the core of t	rigoments in coance which may be de- which may be de- the lavention, and any be recentary in ements. Maintoin or confirm Letters Patents of the that he has full right ifflet herewith, and this assignment and atent and Tradema	clared concerning and to cooperate with connection with a by release or the United States in to convey the ingrees that the convey the ingrees that this ay further ark Office for (SEAL) (SEAL) (SEAL) (SEAL)	

 $(\tilde{\mathcal{L}}, \tilde{\mathcal{L}})$

Witness Thing Hand

RECORDED: 11/24/2004

October 8, 2004

November

PATENT REEL: 015408 FRAME: 0849