FORM PTO-1595 1-31-92

10-04-2001

U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 06761.0045 Attorney Customer Number: 22,852

	Honorable Commissioner of P 101864482 record the attached original documents or copy thereof.		ATTN.	BOX ASSIGNMENTS	
1.	Name of conveying party(ies): 1) Masahide KATSUKI 2) Kazushi KAWATSU 3) Katsuji GAKUHARI	2. / Name:		l address of receiving p BA KIKAI KABUSHIKI I	• ,
Addition	al name(s) of conveying party(ies) attached? ☐ Yes ☒ No	Internal	Address:	2-11, Ginza 4-chome Japan	, Chuo-ku, Tokyo,
3.	Nature of conveyance:	Street A	ddress:		38 38
	Assignment	City:			2 U.S /9644
	Security Change of Name Agreement	State:		Zip Code:) c87 09 09
	Other:	Addition	nal name(s)	& Address(es) attached	i?
Executio	in Date: September 26, 2001		☐ Yes	⊠ No	
4.	Application number(s) or patent number(s): If this document is b the application: 1) September 27, 2001 2 & 3) September 26,	eing filed t 2001	together wit	h a new application, the	e execution date of
Α.	Patent Application Number(s):	В.	Patent Nu	mber(s):	!
1/2001 HL	.E333 00000055 09964438				
C:581	40.00 OP Additional numbers attached?	Yes	\S] No	
5.	Name and address of party to whom correspondence concerning document should be mailed:	6.	Total num involved:	ber of applications and	registrations
Name:	Mr. Ernest F. Chapman	7.	Total fee	(37 CFR 3.41): \$40	
			Enclo accou	osed (Please charge de unt)	ficiency to deposit
			Auth	orized to be charged to	deposit account
Internal	Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.				
Street A	ddress: 1300 I Street, N.W.				
City:	Washington, D.C.				
State:	Zip: 20005-3315	8.	Deposit A	ccount No.: 06-0916	
9.	Statement and signature.				
To the b	est of my knowledge and belief, the foregoing information is true ent.	and corre	ct and any	attached copy is a true	copy of the original
	(1) h. 1	10/4	dell	September 28	3, 2001
	Sign David W. H	ature		CHAPMAN Dat	
	Total number of pages including cover sheet, a			iments: 2	

PATENT REEL: 012209 FRAME: 0330

ASSIGNMENT

hich I/We executed an application for United States Letters Pater of States Letters Patent on WHEREAS TOSHIBA KIKAI KABUSHIKI KAISH (Full Name of Astroporation of Japan (Country of Incorporation of Japan (Country of Incorpose post office address is 2-11, Ginza 4-chome, Compared to as Assignee), is desirous of securing the erication for United States Letters Patent on this invention and the NOW THEREFORE, be it known that, for good and valuable consuleded, I/We, as assignor(s), have sold, assigned, transferred runto the assignee, its lawful successors and assigns, my/our eraphication, and all divisions, and continuations thereof, and all eon, and all reissues thereof; and I/We hereby authorize and rected States to issue all Letters Patent for this invention to assignethis Assignment; AND, I/WE HEREBY further covenant and agree that I/We ginee, its successors and assigns, any facis known to me/us response its successors and assignee, its successors and all lawful papers when called upon to do so, execute and delivered to this invention in said assignee, its successors and a solications, make all rightful oaths and generally do everything potention of such papers shall be borne by the assignee, its successors in TESTIMONY WHEREOF, I/We have hereunto set our handly for the papers of the papers shall be borne by the assignee, its successors and assignation of such papers shall be borne by the assignee, its successors in TESTIMONY WHEREOF, I/We have hereunto set our handly for the papers of the papers shall be borne by the assignee, its successors and assignation of the papers	entire right, title, and interest in and to this invention, the Letters Patent to be issued upon this application, consideration the receipt of which from assignee is herebyed, and set over, and do hereby sell, assign, transfer, and set entire right, title, and interest in and to this invention and ill Letters Patent of the United States which may be granted equest the Commissioner of Patents and Trademarks of the nee, its successors and assigns, in accordance with the terms. We will, without further consideration, communicate with especing this invention and testify in any legal proceeding, over all papers that may be necessary or desirable to perfect assigns, execute all divisional, continuation, and reissue possible to aid assignee, its successors and assigns, to obtain ted States, it being understood that any expense incident to
(Country of Incorpose post office address is 2-11, Ginza 4-chome, Comparison of Securing the erication for United States Letters Patent on this invention and the NOW THEREFORE, be it known that, for good and valuable convoledged, I/We, as assignor(s), have sold, assigned, transferred, runto the assignee, its lawful successors and assigns, my/our elapplication, and all divisions, and continuations thereof, and all econ, and all reissues thereof; and I/We hereby authorize and recited States to issue all Letters Patent for this invention to assigned his Assignment; AND, I/WE HEREBY further covenant and agree that I/We gnee, its successors and assigns, any facts known to me/us respicted to this invention in said assignee, its successors and allieations, make all rightful oaths and generally de everything poenforce proper patent protection for this invention in the United execution of such papers shall be borne by the assignee, its successors in TESTIMONY WHEREOF, I/We have hereunto set our hand(successors and assignee). ASSIGNOR'S SIGNATURE ASSIG	entire right, title, and interest in and to this invention, the see Letters Patent to be issued upon this application, a consideration the receipt of which from assignee is hereby and set over, and do hereby sell, assign, transfer, and set entire right, title, and interest in and to this invention and ill Letters Patent of the United States which may be granted equest the Commissioner of Patents and Trademarks of the see, its successors and assigns, in accordance with the terms. We will, without further consideration, communicate with specing this invention and testify in any legal proceeding, ever all papers that may be necessary or desirable to perfect assigns, execute all divisional, continuation, and reissue possible to aid assignee, its successors and assigns, to obtain ted States, it being understood that any expense incident to
country of Incorpose post office address is 2-11, Ginza 4-chome, C cinafter referred to as Assignee), is desirous of securing the er ication for United States Letters Patent on this invention and the NOW THEREFORE, be it known that, for good and valuable convenience, its lawful successors and assigns, my/our er application, and all divisions, and continuations thereof, and all eon, and all reissues thereof; and I/We hereby authorize and received States to issue all Letters Patent for this invention to assigned its Assignment. AND, I/WE HEREBY further covenant and agree that I/We gnee, its successors and assigns, any facts known to me/us resp all lawful papers when called upon to do so, execute and delive titule to this invention in said assignee, its successors and a ititule to this invention in said assignee, its successors and a ititule to this invention in said assignee, its successors and a ititule to this invention of this and generally do everything po enforce proper patent protection for this invention in the Unite execution of such papers shall be borne by the assignee, its success IN TESTIMONY WHEREOF, I/We have hereunto set our hand(ull name of sole offinest assignor if any assignor signature as a hide KATSUKI Masalide KAZUSHI KAWATSU ASSIGNOR'S SIGNATURE ASSIGN	entire right, title, and interest in and to this invention, the le Leuers Paient to be issued upon this application, and set over, and do hereby sell, assign, transfer, and set entire right, title, and interest in and to this invention and ll Letters Patent of the United States which may be granted equest the Commissioner of Patents and Trademarks of the use, its successors and assigns, in accordance with the terms where the invention and testify in any legal proceeding, ever all papers that may be necessary or desirable to perfect assigns, execute all divisional, continuation, and reissue possible to aid assignee, its successors and assigns, to obtain ted States, it being understood that any expense incident to
cinafter referred to as Assignee), is desirous of securing the erication for United States Letters Patent on this invention and the NOW THEREFORE, be it known that, for good and valuable chowledged, I/We, as assignor(s), have sold, assigned, transferred, unto the assignee, its lawful successors and assigns, my/our elapphication, and all divisions, and continuations thereof, and all econ, and all reissues thereof; and I/We hereby authorize and recled States to issue all Letters Patent for this invention to assigned its Assignment. AND, I/WE HEREBY further covenant and agree that I/We gnee, its successors and assigns, any facts known to me/us respect the successors and assigns, any facts known to me/us respect to this invention in said assignee, its successors and alications, make all rightful oaths and generally do everything poenforce proper patent protection for this invention in the United execution of such papers shall be borne by the assignee, its successors in TESTIMONY WHEREOF, I/We have hereunto set our hand(ULL NAME OF SOLE OR FIRST ASSIGNOR IF ANY ASSIGNOR'S SIGNATURE ASSI	entire right, title, and interest in and to this invention, the le Leuers Paient to be issued upon this application, and set entire right, title, and of hereby sell, assign, transfer, and set entire right, title, and interest in and to this invention and ll Letters Patent of the United States which may be granted equest the Commissioner of Patents and Trademarks of the nee, its successors and assigns, in accordance with the terms will, without further consideration, communicate with especing this invention and testify in any legal proceeding, ever all papers that may be necessary or desirable to perfect assigns, execute all divisional, continuation, and reissue possible to aid assignee, its successors and assigns, to obtain ted States, it being understood that any expense incident to
cinafter referred to as Assignee), is desirous of securing the er ication for United States Letters Patent on this invention and the NOW THEREFORE, be it known that, for good and valuable chowledged, I/We, as assignor(s), have sold, assigned, transferred, unto the assignee, its lawful successors and assigns, my/our elapplication, and all divisions, and continuations thereof, and all een, and all reissues thereof; and I/We hereby authorize and recited States to issue all Letters Patent for this invention to assigned its Assignment; AND, I/WE HEREBY further covenant and agree that I/We gnee, its successors and assigns, any facts known to me/us respect its successors and assigns, any facts known to me/us respect its successors and assignee, its successors and all lawful papers when called upon to do so, execute and delive title to this invention in said assignee, its successors and a lications, make all rightful oaths and generally do everything poenforce proper patent protection for this invention in the Unite execution of such papers shall be borne by the assignee, its successive IN TESTIMONY WHEREOF, I/We have hereunto set our handly uncome of socion assignor if any assignor is signature as all its KAWATSU Assignors signature as all assignors of the papers and assignors of the papers and assignors of the papers as all assignors of the papers and	entire right, title, and interest in and to this invention, the see Letters Patent to be issued upon this application, a consideration the receipt of which from assignee is hereby and set over, and do hereby sell, assign, transfer, and set entire right, title, and interest in and to this invention and all Letters Patent of the United States which may be granted equest the Commissioner of Patents and Trademarks of the nee, its successors and assigns, in accordance with the terms we will, without further consideration, communicate with aspecting this invention and testify in any legal proceeding, over all papers that may be necessary or desirable to perfect assigns, execute all divisional, continuation, and reissue possible to aid assignee, its successors and assigns, to obtain ted States, it being understood that any expense incident to
ication for United States Letters Patent on this invention and the NOW THEREFORE, be it known that, for good and valuable of nowledged, I/We, as assignor(s), have sold, assigned, transferred, runto the assignee, its lawful successors and assigns, my/our elapplication, and all divisions, and continuations thereof, and all eon, and all reissues thereof; and I/We hereby authorize and recited States to issue all Letters Patent for this invention to assigned his Assignment. AND, I/WE HEREBY further covenant and agree that I/We gnee, its successors and assigns, any facts known to me/us respical lawful papers when called upon to do so, execute and delivered title to this invention in said assignee, its successors and a literations, make all rightful oaths and generally do everything polenforce proper patent protection for this invention in the United execution of such papers shall be borne by the assignee, its successive IN TESTIMONY WHEREOF, I/We have hereunto set our handle lasahide KATSUKI JULL NAME OF SOLE OR FIRST ASSIGNOR IF ANY ASSIGNOR'S SIGNATURE LASALIGHE ASSIGNOR'S SIGNATURE ASSIGNOR'S SIGNATURE	the Letters Patent to be issued upon this application, the consideration the receipt of which from assignee is hereby sed, and set over, and do hereby sell, assign, transfer, and set entire right, title, and interest in and to this invention and ll Letters Patent of the United States which may be granted equest the Commissioner of Patents and Trademarks of the nee, its successors and assigns, in accordance with the terms will, without further consideration, communicate with specting this invention and testify in any legal proceeding, ever all papers that may be necessary or desirable to perfect assigns, execute all divisional, continuation, and reissue possible to aid assignee, its successors and assigns, to obtain ted States, it being understood that any expense incident to
DRESS 133-7, Ooka, Numazu-shi, Shizuoka-ken, Japan DRESS DRESS DRESS 31-10, Okanomiya, Numazu-shi, Shizuoka-ken, J DRESS	d(s).
ASSIGNORS SIGNATURE ASSIGNORS SIGNATURE CAZUSHI KAWATSU ASSIGNORS SIGNATURE CAZUSHI CAZUS	CITIZENSHIP
azushi KAWATSU DAGESS 31-10, Okanomiya, Numazu-shi, Shizuoka-ken, J ULL NAME OF THIRD ASSIGNOR IF ANY DESCRIPTION DESC	
AGESS 31-10, Okanomiya, Numazu-shi, Shizuoka-ken, Juliname of Third assignor if any Assignor's signature of third assignor if any Assignor is a signature of the assignor is	
ULL NAME OF THIRD ASSIGNOR IF ANY ASSIGNOR'S SIGNATURE ASSIGNATURE ASSIGNOR'S SIGNATURE ASSIGNATURE ASSIGNOR'S SIGNATURE ASSIGNATURE ASSI	CITIZENSHIP
GAKUHARI Katsuji MASJUJi 0-5, Fujimidai, Mishima-shi, Shizuoka-ken, Jap	
พรรมสำ 0-5, Fujimidai, Mishima-shi,Shizuoka-ken, Jap	
0-5, Fujimidai, Mishima-shi,Shizuoka-ken, Jar	Cfakuhan September 26, 200
· · · · · · · · · · · · · · · · · · ·	
PRESS	CITIZENSHIP
ULL NAME OF FIFTH ASSIGNOR, IF ANY ASSIGNOR'S SIGNATUR	URE DATE
AESS	CITIZENSHIP
ULL NAME OF SIXTH ASSIGNOR, IF ANY ASSIGNOR'S SIGNATUR	l l
RESS	URE DATE

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER - WASHINGTON, D.C.

RECORDED: 09/28/2001

FHECD FORM 100 November 84

PATENT REEL: 012209 FRAME: 0331