BOX ASSIGNMENTS			DO NOT USE FOR TRADEMARKS				
RECORDATION FORM COVER SHEET							
PATENT ARREICATIONS & PATENTS ONLY TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:							
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.							
1. NAME OF CONVEYING PART							
1. Kouichi KATOH	ATOH 2			2. Yasunon KATO			
3. Takazumi WATANABE	4. Makoto SAGARA						
5. 6. 8.							
7.   8.   8.   ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? □YES ☑NO							
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:							
NAME: Toshiba Kikai Kabushiki I	Kaisha		_				
ADDRESS: 2-11, 4-chome Ginza, Chuo-ku, Tokyo 104-0061 Japan							
ADDITIONAL NAME(S) & ADDR	ESS(ES) ATTACHED? ☐YES	⊠NO_					
3. NATURE OF CONVEYANCE	(DOCUMENT):	<del>-</del>				_ [	
	cument for recordation—multiple	copies of s	ame Assignm	ent signed by differe	nt inventors is on	ie	
document)  ASSIGNMENT OF WHOLE PART INTEREST EXEC. DATE: July 30, 31 and August 2, 2002							
				<b>-</b>	I		
CHANGE OF NAME							
SECURITY MERGER	OTHER:						
EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)							
4.5 APPL. NO (S) OR PAT NO (S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO							
WY FAR	AND MENTERS				F NYENTOR		
Series codelserial no 1995		LA PERSONAL			ilaoso tem il		
10/197,267 29295 5. Name & Address of Party to V		6 ND (A.6	BER INVOLV	<u> </u>		-	
Concerning Document Shoul				<u>0</u> = TOTAL =	<u>1</u>		
_	as pursue to employments.				÷		
Pilisbury Winthrop LLP Intellectual Property Group			7. AMOUNT OF FEE DUE. (Code 581) ABOVE TOTAL x \$40 = \$40 (PTO ERROR/NO FEE DUE)				
P.O. Box 10500, McLean, VA 2	2102	ABOVE 10145 X 140 - 140 (F.10 ENVOINING FEE DOE)					
T.O. BOX 10000, NICLESCH, VX ZETOE							
100 2012		0 5 5 6		o o o ocooo coo			
5.5ATTY DKT:			ER: 03-3975	OUR DÉPOSIT ACC	OUNT		
P 292957	02/88037-TMC-US		ORDER NO	7356	292957		
MATTER NO.	CLIENT REF.		not required	CLIENT NO.	MATTER NO	).	
9. 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.							
		Υ			· · · · · · · · · · · · · · · · · · ·		
	~//)			ges <u>including</u> this its and document	5		
			e dup. Cover :				
Signature (as its installation)							
Attorney: Jeffrey D. Karceski							
Reg. No. 35914			December 20,				
Atty/Sec: JDK:smw	TEL: (703) 905-2110		FAX: (703) 90	5-2500			

FILE WITH PTO RETURN RECEIPT (PAT-103A)

HULK ANSWERSON	70	011303	173	DO NOT USE	FOR TRADEMA
BUX ASSIGNMENTS	RECC	RDATION FO	RM.COVER'SHEET		
•	PATENT	APPLICATIO	VS & PATENTS ONLY	r	
TO THE ASSISTANT COM				· · · · · · · · · · · · · · · · · · ·	
SIR: PLEASE RECORD THI	E ATTACHED ORIGIN	AL DOCUMEN	TS OR COPY THER	EQF.	_
1. NAME OF CONVEYING I					
1. Koujchi KATOH	•		2. Yasunori KATO		
3. Takezumi WATANABE			4. Makoto SAGARA		
5.			<b>5</b> .	•	
7.			G.		
ADDITIONAL NAME(S) OF	CONVEYING PARTY(	(ES) A HACHE	DINES MINO	•	
2. PARTY(IES) (ASSIGNEE	ISN RECEIVING INTE	REST-		-	
NAME: Toshiba Kikal Kabus	hiki Kaisha	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
TOTAL TOURS THE THE					
ADDRESS: 2-11, 4-chome (	Sinza, Chuo-ku, Tokyo	104-0061 Japa	in .		
ADDITIONAL NAME(S) & A	DDRESS(ES) ATTACI	HED? YES	⊠NO		
3. NATURE OF CONVEYA	NCE (DOCUMENT):				
(Submit herewith only or	e document for record	ation—mut <del>iple</del>	copies of same Assig	nment signed by differ	ment inventors is (
document)				A	
XASSIGNMENT OF		PART INTER	lest exec	. <b>SATE</b> : July 30, 31 a	nd August 2, 200
<b>⊠</b> ORIGINAL	☐FACS/MILE/PI				
CHANGE OF NAME		ANSLATION	<u> </u>		
SECURITY MERG	ER OTHER:		MATERIAL CARPOTTS OF THAT	TO ON DEDI ABATIC	NET A SIP
EXECUTION DATE(S) ON ASSIGNMENT DIFFER SE	THE DECLARATION II	r riled Here	NU (MOTE: IL MY)	E2 ON DECIMAN NO	N AND
4.5 APPL NO.(S) OR PAT				_YES ⊠NO	
		74666111461WW.			
					14 INVENTOR
		NVENTOR:	B. PATENT NO(S)	144	1= INVENTOR
series codersarial no	if no				1= INVENTOR
series code/serial no 2 10/197,287 2	92957 If no	NVENTOR: ot in item 1	B. PATENT NO(S)	<b>M</b>	1= INVENTOR
series code/seriel no 10/197,287 2: 5. Name & Address of Part	92957 by to Whom Correspond	NVENTOR: ot in item 1	B. PATENT NO(S)  6. NUMBER INVO	<b>M</b>	1= INVENTOR
series code/series no - 10/197,287 2:  5. Name & Address of Part Concerning Document S	92957 by to Whom Correspond	NVENTOR: ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLNS 1 + PA	LVED: TSQ = TOTAL =	If not in Hem
series code/series no - 10/197,287 2  5. Name & Address of Part Concerning Document S Pillspury Winthrop LLP	g2957 by to Whorn Corresponding thould be Mailed:	NVENTOR: ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLNS 1 + PA  7. AMOUNT OF FE	LVED: TSQ = TOTAL = E DUE: (Code 581)	If not in Hem
series code/series no - 10/197,287 2  5. Name & Address of Part Concerning Document S  Pillspury Winthrop LLP Intellectual Property Group	if no 92957 by to Whom Correspond Should be Mailed:	NVENTOR: ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLNS 1 + PA	LVED: TSQ = TOTAL = E DUE: (Code 581)	If not in Hem
series code/series no - 10/197,287 2  5. Name & Address of Part Concerning Document S Pillspury Winthrop LLP	if no 92957 by to Whom Correspond Should be Mailed:	NVENTOR: ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLNS 1 + PA  7. AMOUNT OF FE	LVED: TSQ = TOTAL = E DUE: (Code 581)	If not in Hem
series code/series no - 10/197,287 2  5. Name & Address of Part Concerning Document S  Pillspury Winthrop LLP Intellectual Property Group	if no 92957 by to Whom Correspond Should be Mailed:	NVENTOR: ot in item 1	8. NUMBER INVO APPLNS 1 + PA 7. AMOUNT OF FE ABOVE TOTAL x	LVED: ITSQ = TOTAL = E DUE: (Code 581) : \$40 = \$40	If not in item
series code/series no - 10/197,287 2:  5. Name & Address of Pari Concerning Document S Pillspury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V.	if no 92957 by to Whom Correspond Should be Mailed:	NVENTOR: ot in item 1	8. NUMBER INVO APPLINS 1 + PA 7. AMOUNT OF FE ABOVE TOTAL X	LVED: ITSQ = TOTAL = E DUE: (Code 581) : \$40 = \$40	If not in item
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:	y to Whom Correspond thould be Mailed: P A 22102	NVENTOR- ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLNS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-9975	LVED: ITSQ = TOTAL = E DUE: (Code 581) : \$40 = \$40	If not in item  1  COUNT
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V.  5.5ATTY DKT: P. 292857	y to Whom Corresponding to Mailed:  PA 22102	NVENTOR- ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLNS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-9975 UNDER ORDER NO	LVED: TSQ = TOTAL = E DUE: (Code 581) : \$40 = \$40 TO OUR DEPOSIT AC	1 COUNT 292957
series code/series no - 10/197,267 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.	y to Whom Corresponding to Mailed:  PA 22102  02/88037-1	NVENTOR- ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-3975 UNDER ORDER NO dup. Sheet not required	LVED: ITSQ = TOTAL = E OUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT AC 1 7356 CLIENT NO.	1 COUNT 292957 MATTER
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.  9. To the best of my knowle	y to Whom Corresponding to Mailed:  PA 22102  02/88037-1	NVENTOR- ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-3975 UNDER ORDER NO dup. Sheet not required	LVED: ITSQ = TOTAL = E OUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT AC 1 7356 CLIENT NO.	1 COUNT 292957 MATTER
series code/series no - 10/197,267 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.	y to Whom Corresponding to Mailed:  PA 22102  02/88037-1	NVENTOR- ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-3975 UNDER ORDER NO dup. Sheet not required	LVED: ITSQ = TOTAL = E OUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT AC 1 7356 CLIENT NO.	1 COUNT 292957 MATTER
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.  9. To the best of my knowle	y to Whom Corresponding to Mailed:  PA 22102  02/88037-1	NVENTOR- ot in item 1	8. PATENT NO(S)  6. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-9975 UNDER ORDER NO dup sheet not required tion is true and correct	LVED: ITSQ = TOTAL = E OUE: (Code 581) \$40 = \$40  TO OUR DEPOSIT AC   7355   CLIENT NO. t and any attached co	1 COUNT 292957 MATTER
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.  9. To the best of my knowle	y to Whom Corresponding to Mailed:  PA 22102  02/88037-1	NVENTOR- ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-9975 UNDER ORDER NO dup sheet not required tion is true and correct  10. Total number of	LVED: ITSQ = TOTAL = E DUE: (Code 581) \$40 = \$40  TO OUR DEPOSIT AC   7355   CLIENT NO. t and any attached co	COUNT  292957  MATTER Noy is a true copy
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.  9. To the best of my knowle	y to Whom Corresponding to Mailed:  PA 22102  02/88037-1	NVENTOR- ot in item 1	8. PATENT NO(S)  6. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-9975 UNDER ORDER NO dup sheet not required tion is true and correct  10. Total number of cover sheet, attaching	LVED: ITSQ = TOTAL = E OUE: (Code 581)  \$40 = \$40  TO OUR DEPOSIT AC  7356  CLIENT NO. t and any attached co- pages including this nexts and document	292957 MATTER N
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.  9. To the best of my knowle the original document.	y to Whom Corresponding to Whom Corresponding to Walled:  PA 22102  02/88037-1  CLIENT  edge and belief, the for	NVENTOR- ot in item 1	B. PATENT NO(S)  B. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-9975 UNDER ORDER NO dup sheet not required tion is true and correct  10. Total number of	LVED: ITSQ = TOTAL = E OUE: (Code 581)  \$40 = \$40  TO OUR DEPOSIT AC  7356  CLIENT NO. t and any attached co- pages including this nexts and document	COUNT  292957  MATTER Noy is a true copy
series code/seriel no - 10/197,287 2:  5. Name & Address of Part Concerning Document S Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, V. 5.5ATTY DKT:  P. 292857  MATTER NO.  9. To the best of my knowle the original document.	p 15 not 192957  The total of the second should be Mailed:  P 22102  02/88037-1  CLIENT  edge and belief, the for 1920 and 1920 a	NVENTOR- ot in item 1	8. PATENT NO(S)  6. NUMBER INVO APPLINS 1 + PA  7. AMOUNT OF FE ABOVE TOTAL x  8. PLEASE CHARGE NUMBER: 03-9975 UNDER ORDER NO dup sheet not required tion is true and correct  10. Total number of cover sheet, attaching	LVED: ITSQ = TOTAL = E OUE: (Code 581)  \$40 = \$40  TO OUR DEPOSIT AC  7356  CLIENT NO. t and any attached co- pages including this nexts and document	COUNT  292957  MATTER Noy is a true copy

FILE WITH PTO RETURN RECEIPT (PAT-103A)

PAT-114X 5/02

30312235\_1.DOC

- ( -

Page 1 of 3

## U.S. ASSIGNMENT

TATE	HE		-	A.	•	-
₩.		ı.	-	41		-

Kouichi KATOH whose full post office address is, 1974-2, Ooka, Numadu-shi, Shizuoka-ken, Japan, Yasunori KATO whose full post office address is, 6-1, Minamihutsukamachi, Mishima-shi, Shizuoka-ken, Japan, Takazumi WATANABE whose full post office address is, 15-36, Bunkyouchou 2-chome, Mishima-shi, Shizuoka-ken, Japan, and Makoto SAGARA whose full post office address is,

11-15, Asahiqaoka, Mishima-shi, Shiquoka-ken, Japan (hereinafter referred to as ASSIGNOR), has/have invented certain new and useful :

## MACHINE TOOL, TOOL, AND TOOL HOLDER

- (a) for which an application for United States Letters Patent is being executed and filed concurrently herewith; (b) for which an application for United States Letters Patent was executed on \_\_\_\_
- (c) for which an application for United States Letters Patent was filed on \_\_\_\_\_

Serial No. \_\_\_\_\_

(d) for which an PCT International application was filed on \_\_\_\_\_ as International application No.\_\_\_\_\_

## WHEREAS:

## TOSHIBA KIKAI KABUSHIKI KAISHA

2-11, 4-chome Ginza, Chuo-ku, Tokyo 104-0061 Japan

.

Page 2 of 3

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged. and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and

its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the

United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation , division, continuation-in-part, recumination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patent of the United States and any official of any foreign country whose duty it is to issue patents of legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all partinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/WE have hereunto set hand and signed on the date indicated below:

	<u>inventor(s)</u>	DATE SIGNED	<u>WITNESS (ES)</u>
1 <u>)</u>	Kouich Katoh	JULY 30 2002	Ligotrom Sellening
2)	Yarunon Kate	July 31, 2002	Joshio Isachiya

04 17:22 From-PILLSBURY WINTHROP

+703-905-2500 T-829 P.008/008 F-953

Page 3 of 3

3) Swatanabe July 31.2002 T. Hugemoto

4) Mr. Sagara 02 Aug. 2002 S. Maita