[3rd Inventor]

Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome,

Minato-ku, Tokyo 105-8001, Japan

Residence Address: Yokohama-shi, Japan

Country of Citizenship: Japan

Date:

FEB. 18.2000

Yasunder Onisti Tasunobu Onishi

[4th Inventor]

Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome,

Minato-ku, Tokyo 105-8001, Japan

Residence Address: Yokohama-shi, Japan

Country of Citizenship:

Japan

Date:

FEB. 18.2000

Shuji Hayase.

[5th Inventor]

Post Office Address: c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome,

Minato-ku, Tokyo 105-8001, Japan

Residence Address: Tokyo, Japan Country of Citizenship: Japan

Date:

FEB. 18.2000

Yoshihiko Nakano

After recording please return to:

Finnegan, Henderson, Farabow, Garrett & Dunner L.L.P. 1300 I Street, N.W., Washington, D.C. 20005-3315, U.S.A.

RECORDED: 02/24/2000

PATENT

REEL: 010590 FRAME: 0534

FORM PTO-1619A Expires 06/30/99 OMB 0651-0027 03-09-2000



U.S. Department of Commerce Patent and Trademark Office PATENT

	101285882			
2.7.00	DATION FORM COVER PATENTS ONLY			9 10
TO: The Commissioner of Patents and Tradem Submission Type	arks: Please record the attach Conveyance Type	ned original docu	ment(s) or copy(les).	51
X New	X Assignment	Security Agree	ement	4985
Resubmission (Non-Recordation)		-		584
Document ID#	License	Change of Nar	ne	jc5
Correction of PTO Error	Merger	Other		
Reel # Frame # Corrective Document	\overline{u}	.S. Government	Agencies)	
Reel # Frame #	7 (nental File	Secret File	
Conveying Party(ies)	X Mark if additional name	s of conveying parti		
Name (line 1) Page, Howard G.			Month Day Yes 01272000	
Name (line 2)				_
Second Party			Execution Date Month Day Ye	ar
Name (line 1) O'Brien, Mike			01042000	
Name (line 2)			J07/4985	15
Receiving Party	Mark if	additional names of	receiving parties attached	
Name (line 1) Sprint Communications Co	mpany, L. P.		If document to be red is an assignment an	
Name (line 2)			receiving party is no domiciled in the Unit	ed
Address (line 1) 01 40 W - 1 D - 1 54 F			States, an appointme of a domestic representative is atta	
Address (line 1) 8140 Ward Parkway, 5th F	loor		(Designation must be separate document f	e a
Address (line 2)			Assignment.)	70111
Address (line 3) Kansas City	KS State/Country	64114	Code	;
Domestic Representative Name and	Address	first Receiving Part		
Name Michael J. Setter				
Address (line 1) Duft, Graziano & Forest, P.	. C.			
Address (line 2) 1790 30th Street, Suite 140				
Address (line 3)				7
Address (line 4) Boulder, CO 80301				
2000 DNGUYEN 00000222 210765 09498515	FOR OFFICE USE ONLY			
581 (40.00 CH)				
(10,00 011)				

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0851-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

REEL: 010590 FRAME: 0535

FORM PTO-1 Expires 06/30/99 OMB 0651-0027	619C REC	CORDATION FOR CONTINUATE PATENTS (ΓΙΟΝ	J.S. PTO 98515		S. Department of Commerce tent and Trademark Office PATENT
Conveying Pa	onveying Parties	Mark if addition	nal names of convey	ring pa	0%0	Execution Date Month Day Year
Name (line 1) Str	aley, Jay Cee					01272000
Name (line 2)			<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Execution Date Month Day Year
Name (line 1)		· · · · · · · · · · · · · · · · · · ·				
Name (line 2)						Execution Date
Name (line 1)						Month Day Year
Name (line 2)						
Receiving Par	rty(ies)		Mark if additional na	mes of receiv	ing partie	s attached
Enter additional R	eceiving Party(ies)					
Name (line 1)		,				If document to be recorded is an assignment and the
Name (line 2)		·				receiving party is not domiciled in the United States, an appointment
Address (line 1)		***************************************				of a domestic representative is attached. (Designation must be a separate
Address (line 2)						document from Assignment.)
Address (line 3)	City		State/Country		Zip Cod	e
Name (line 1)						If document to be recorded is an assignment and the
Name (line 2)						receiving party is not domiciled in the United States, an appointment of a
Address (line 1)						domestic representative is attached. (Designation must be a separate document from
Address (line 2)				-,,-		Assignment.)
Address (line 3)	City		State/Country		Zip Co	ode
• •	umber(s) or Pate	` '	Mark if addition			
		er or the Patent Number (DO NOT ENTER BO			· · · · · · · · · · · · · · · · · · ·
Pat	tent Application Nur	nber(s)		Pater	nt Numb	er(s)
] [
		· · · · · · · · · · · · · · · · · · ·			····	

PATENT REEL: 010590 FRAME: 0536