Form PTO-1595 RECORDATION FORM COVER SI	Department of Commerce ts & Trademark Office		
4/26/04 102733882	ey Docket No. 59643.00393  Date: April 26, 2004		
MAILSTOP ASSIGNMENT	ω		
To the Commissioner of Patents  Please record the attached original documents or copy thereof			
Name of conveying party(ies)	2. Name and address of receiving party(ies):		
Sami KEKKI	Name: NOKIA CORPORATION		
Additional name(s) of conveying party(ies) attached?	Address: Keilalahdentie 4 FIN-02150 Espoo FINLAND		
☐ Yes			
	Additional name(s) & address(es) attached?		
3. Nature of conveyance:	☐ Yes		
Execution Date: 4/2/04			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 4/2/04  A. Patent Application No.(s)  B. Patent No.(s)  Additional numbers attached? ☐ Yes ☒ No			
Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved:     One		
Name: Squire Sanders & Dempsey L.L.P.	7. Total fee (37 CFR 3.41) \$ 40.00		
Street Address: 8000 Towers Crescent Drive, 14 <sup>th</sup> Floor	☑ Included in attached Check No. <u>011413</u> .		
Tysons Corner Virginia 22182-2700	Any additional fees are authorized to be charged to deposit account		
0.40.00 <b>9</b> 0	8. Counsel's Deposit account number: 50-2222 (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE			
9. Statement and signature.  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.    A			
Douglas H. Goldhush Name of Person Signing Reg. No. 33,125  Signature  Signature  Date  Total number of pages including cover sheet, attachments, and document: 2			

PATENT REEL: 015260 FRAME: 0977

Docket No.	59643.00393

ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title are interest to the invention entitled  QUALITY OF SERVICE IN COMMUNICATION SYSTEMS  for which application for Letters Patent of the United States was executed on even date herewith unle otherwise indicated below:  after the filing of the application, this section must be completed]  (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)  and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and and continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereof.		U.S. ASSIGNMEN I				
ASSIGNEF's Name(s) Address(es)    Keilalaldentie 4   Fin.O2150 Espoo   Fin.LAND    (hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title as interest to the invention entitled    [*If the assignment is being filed after the filing of the application, this section must be completed!    (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)    and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and at continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interferent litigation, or other legal proceeding which may be declared concerning this application or a continuation, division, reissue or reexamination thereof or letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence a proceeding with such interference, litigation, or other legal proceeding his with historytheir signature(s).  [Signature] (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)			eration paid to the undersigned	inventor(s) (hereinafter		
ASSIGNEF's Name(s) Address(es)    Keilalaldentie 4   Fin.O2150 Espoo   Fin.LAND    (hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title as interest to the invention entitled    [*If the assignment is being filed after the filing of the application, this section must be completed!    (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)    and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and at continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interferent litigation, or other legal proceeding which may be declared concerning this application or a continuation, division, reissue or reexamination thereof or letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence a proceeding with such interference, litigation, or other legal proceeding his with historytheir signature(s).  [Signature] (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)		Nokia Corporation				
Address(es)  FIN-LAND  (hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersign ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title as interest to the invention entitled  QUALITY OF SERVICE IN COMMUNICATION SYSTEMS  for which application for Letters Patent of the United States was executed on even date herewith unle otherwise indicated below:  *filled on , Serial No.  (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filling date hereon, when known)  and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and as continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interferent litigation, or other legal proceeding which may be declared concerning this application or a continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence as proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  (SIGNATURE)  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)		Keilalahdentie 4				
(hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersignal ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title as interest to the invention entitled  QUALITY OF SERVICE IN COMMUNICATION SYSTEMS  for which application for Letters Patent of the United States was executed on even date herewith unle otherwise indicated below:  #filed on, Serial No.  (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)  and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and an continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference litigation, or other legal proceeding, which may be declared concerning this application or a continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  (Signature)  (Signature)						
ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title as interest to the invention cntitled  QUALITY OF SERVICE IN COMMUNICATION SYSTEMS  for which application for Letters Patent of the United States was executed on even date herewith unle otherwise indicated below:  *filed on, Serial No.  (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)  and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and at continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interferent litigation, or other legal proceeding which may be declared concerning this application or a continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence an proceeding with such interference, litigation, or other legal proceeding.  [Signature(s) of Assignor(s)]  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)  (SIGNATURE)  (TYPE NAME)  (DATE)		FINLAND				
[*] If the assignment is being filed after the filing of the application, this section must be completed]		(hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled				
otherwise indicated below:  *filed on , Serial No.  (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)  and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and accontinuing, divisional, reissue or reexamination applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with application assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference litigation, or other legal proceeding which may be declared concerning this application or accontinuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence as proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  (Signature(s) (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)	-	QUALITY OF SERVICE IN COMMUNICATION SYSTEMS				
#filed on , Serial No.  (Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)  and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and at continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interferent litigation, or other legal proceeding which may be declared concerning this application or at continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence an proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  [Signature(s) (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)	is being filed	for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:				
(Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial numb and/or filing date hereon, when known)  and all Letters Patent of the United States to be obtained therefor on said application or any continuation division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which it same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and at continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interferent litigation, or other legal proceeding which may be declared concerning this application or at continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence as proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  (Signature(s) (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)	application, this	*filed on	, Serial No.			
division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.  The ASSIGNOR agrees to execute all papers necessary in connection with application and at continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference litigation, or other legal proceeding which may be declared concerning this application or at continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence at proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  Sami KEKKI  Z. 9. 2009  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)  (SIGNATURE)  (TYPE NAME)  (DATE)	completed]	(Squire, Sanders & Dempsey L.L.P. is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)				
continuing, divisional, reissue or reexamination applications thereof and also to execute separa assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.  The ASSIGNOR agrees to execute all papers necessary in connection with any interference litigation, or other legal proceeding which may be declared concerning this application or at continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence as proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  Sami KEKKI  C. 9. 200 9  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)  (SIGNATURE)  (TYPE NAME)  (DATE)		and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.				
litigation, or other legal proceeding which may be declared concerning this application or as continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued there and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence as proceeding with such interference, litigation, or other legal proceeding.  IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).  Sami KEKKI  Z. 9. 2009  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)		The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.				
[Signature(s) of Assignor(s)]  (SIGNATURE)  (SIGNATURE)  (SIGNATURE)  (SIGNATURE)  (TYPE NAME)  (DATE)  (SIGNATURE)  (TYPE NAME)  (DATE)  (SIGNATURE)  (TYPE NAME)  (DATE)		The ASSIGNOR agrees to execute all papers necessary in connection with any interference litigation, or other legal proceeding which may be declared concerning this application or an continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereof and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence are proceeding with such interference, litigation, or other legal proceeding.				
(SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)	IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s)					
(SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)		American State of the State of	Sami KEKKI	7 4 2004		
(SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)	of Assignor(s)]	(SIGNATURE)		(DATE)		
(SIGNATURE) (TYPE NAME) (DATE)  (SIGNATURE) (TYPE NAME) (DATE)						
(SIGNATURE) (TYPE NAME) (DATE)	`	(SIGNATURE)	(TYPE NAME)	(DATE)		
		(SIGNATURE)	(TYPE NAME)	(DATE)		
(SIGNATURE) (TYPE NAME) (DATE)		(SIGNATURE)	(TYPE NAME)	(DATE)		
		(SIGNATURE)	(TYPE NAME)	(DATE)		

NO LEGALIZATION REQUIRED

**RECORDED: 04/26/2004** 

**PATENT REEL: 015260 FRAME: 0978**