				Docket No	D.: U17.39962XU
FORM PTO-1595 1-31-92	RE	06-18-2	2001	HEET	U.S. DEPARTMENT OF COMMERCE
1-31-92					Patent and Trademark Office
To the Honorable Commission	er of Pate			ached original document	ts or copy thereof.
1. Name of conveying party(ie		101750	_	ddress of receiving party	
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		🗔	Internal Add	aress:	875.8
Additional name(s) of conveying pa	rty(ies) attached?	Yes LXI No	044 4.11	Well-lab dama'a A	978
3. Nature of conveyance: Assignment	☐ Merger		Street Addre	ess: Keilalahdentie 4	5
Security Agreement	☐ Change of N	ame	City, Count	ry: FIN-02150 ESPOO	
Other					
Execution Date: June 5, 2001			Additional name(s) & address(es) attached? Yes No		
4. Application number(s) or pa	itent number(s):	09/	875	877	
If this document is being fil	ed together with a	new application	, the execution d	ate of the application is:	June 5, 2001
				ent No.(s)	
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A. Patent Application octil feet in Billing os Fee S8!	6	to an al			
			ched? Yes	No	
5. Name and address of party to whom correspondence concerning document should be mailed:			6. Total number of applications and patents involved: 1		
Name: ANTONELLI, TER	RY, STOUT & K	RAUS, LLP	7. Total fee (37 CFR 3.41)\$40.00		
Internal Address:			Enclosed		
Internal Address:			Any deficiencies may be charged to deposit account Authorized to be charged to deposit account		
a	Consultational Character	- 4		count number: 01-2135	
Street Address: 1300 North Seventeenth Street Suite 1800			8. Deposit acc	count number. 01-2133	
City: Arlington State	: VA Zip:	22209	(Attach duplic	ate copy of this page if paying	by deposit account)
City. Armigion State	. 411 230.		THIS SPACE		
		DO NOT USE	/ THIS STACE		
9. Statement and signature.	wledge and helief	the foregoing in	formation is true	and correct and any atte	ached copy is a true
copy of the original de		7 /		· • • • • • • • • • • • • • • • • •	
Henry M. Zykorie		In		June 8, 2001	
Name of Person Signing	Signature			Date	
Attorney Registration No. 27, Total number of pages including coverage and account of the control of the contro	477 er sheet, attachments, a	and document: 2			
OMB No. 0651-0011 (exp. 4/					
06/12/2001 MBIZUNES 00000006 0987					
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PATENT REEL: 011889 FRAME: 0449

ASSIGNMENT

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

RECEIVER-DRIVEN LAYERED MULTICAST RATE-CONTROL PROTOCOL

For which an application for	Letters Patent to be filed in the	United States Patent and Trademark	Office was executed on even date.
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For which U.S. Application Serial No.

for Letters Patent was filed in the U.S. Patent and Trademark Office on

for which an International Application was filed

as

, designating the United States.

AND WHEREAS

NOKIA NETWORKS Keilalahdentie 4 01250 Espoo Finland

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Antonelli, Terry, Stout, Kraus, LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

201	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
	Dirk TROSSEN	177	6-5-2001
202	FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
203	FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
204	FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
205	FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
212	FULL NAME OF TWELFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT REEL: 011889 FRAME: 0450

RECORDED: 06/08/2001