04-26-2001

CORDATION FORM COVER SHEET

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101688921 As and Trademarks: Ple	ease record the attached original documents or copy thereof.				
1. Name of conveying party(ies): Ari AHO Matti FLOMAN Marrku LIPPONEN	Name and address of receiving party(ies): Name: Nokia Mobile Phones Limited Street Address: Keilalahdentie 4, 02150				
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other	City: Espoo: Country: Finland				
Execution Date: March 22, 23, 26, 2001	Additional name(s) & address(es) attached? Yes 🙀 No				
 4. Application number(s) or patent number(s): If this document is being filed together with a new application, A. Patent Application No.(s) 09/740,802 December 21, 2000 	the execution date of the application is: B. Patent No.(s)				
Additional numbers attac	ched? Yes X 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, TERRY, STOUT & KRAUS, LLP Internal Address:	7. Total fee (37 CFR 3.41)\$40.00 Enclosed Any deficiencies may be charged to deposit account Authorized to be charged to deposit account				
Street Address: 1300 North Seventeenth Street Suite 1800 City: Arlington State: VA Zip: 22209	Deposit account number: 01-2135 (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 copy of the original document. Carl I. Brundidge Name of Person Signing Attorney Registration No. 29,621 Total number of pages including cover sheet, attachments, and document: 2 OMB No. 0651-0011 (exp. 4/94)	April 17, 2001 Date				
04/18/2001 HNDOR! 00000031 09740802 02 F0:58: 40,00 09					

PATENT REEL: 011714 FRAME: 0300

Attorney Docket No: 367.39338X00

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 a Memory Controller

	for which an application for Letters Patent to be filed in the United States Pate				
	Trademark Office was executed on even date) .			
\boxtimes	for which U.S. Application Serial No.09/740	,802 for Letters Pa	tent was filed in the U.S.		
	Patent and Trademark Office on 21st Decemb	per 2000			
	for which an International Application	as	, designating the		
	United States, was filed on				

AND WHEREAS NOKIA MOBILE PHONES LIMITED **KEILALAHDENTIE 4** 02150 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 any during the term or terms of any and all such Letters Patent when granted including any 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 Antonneli, 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.

1	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
	ARI AHO		25.5,8001
2	FULL NAME OF SECOND NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
	MATTI FLOMAN	Mille Marc	-22.3.2001
3	FULL NAME OF THIRD NAMED INVENTOR MARKKU LIPPONEN	INVENTOR'S SIGNATURE	DATE
		There was	26.5.200
4	FULL NAME OF FOURTH NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
5	FULL NAME OF FIFTH NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT RECORDED: 04/17/2001 REEL: 011714 FRAME: 0301