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Attorney Docket No. 944-003.048

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

3.23.1

<p>1. Name of conveying party(ies): Pasi Tikki Juha Ellä Jyrki Kaitila</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): NOKIA MOBILE PHONES LTD P.O. Box 86 FIN-24101- Salo FINLAND</p> <p>Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: February 21, 2001</p>	

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: _____

A. Patent Application No.(s)

B. Patent No.(s)

09/755,954 filed January 5, 2001

Additional numbers attached? ☐ Yes ☒ No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>James A. Retter Ware Fressola, Van Der Sluys & Adolphson LLP Bradford Green, Building 5 755 Main Street P.O. Box 224 Monroe, CT 06468-0224</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>23-0442</u> (Attach duplicate copy of this page if paying by deposit account.)</p>
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Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attachment copy is a true copy of the original document.

James A. Retter

Name of Person Signing

Signature

19 March 2001
Date

Total number of pages including cover sheet, attachments, and document: 5

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PATENT
REEL: 011637 FRAME: 0927

Attorney Docket No. 944-3.48

ASSIGNMENT AND AGREEMENT

FOR VALUE RECEIVED, WE, **Pasi TIKKA, Juha ELLÄ and Jyrki KAITILA**, all citizens of Finland and residing respectively at ~~Kangasalan tie 4A/5~~ ⁰⁰⁵⁵⁰ ~~Meri-Rastilan tie 40 B 14, 00980~~ Helsinki, Finland, Kääriäisentie 5, 24800 Halikko, Finland and Nelijäs linja 14B, 00530 Helsinki, Finland assign and transfer to NOKIA MOBILE PHONES LTD., a corporation duly organized and existing under the laws of Finland, and having a principal place of business at Keilalahdentie 4, FIN-02150 ESPOO, Finland, as assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to improvements in a MONOLITHIC FBAR DUPLEXER AND METHOD OF MAKING THE SAME, which is described in an application for Letters Patent of the United States, Serial No. 09/755,954 filed January 5, 2001; and all the rights and privileges under any and all Letters Patent that may be granted therefor.

We request that any and all patents for said invention be issued to said assignee, its successors, assigns and legal representatives or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in the United States and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be


substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file a like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives that the rights and property herein conveyed are free and clear of any encumbrance, and that i have full right to convey the same as herein expressed.

Signed at Helsinki, Finland, this


21th day of February, 2001.


Pasi TIKKA

Signed in our presence and acknowledged to be an assignment of the application (invention) herein above referred to.

Witness: 

Date: 21th Feb 2001

Witness: 

Date: 21th Feb 2001

Signed at SALO, FINLAND, this

13th day of March, 2001.


Juha ELLÄ

Signed in our presence and acknowledged to be an assignment of the application (invention) herein above referred to.

Witness: Heleni Pajunen

Date: 13.3.2000 Heleni Pajunen

Witness: Janne Kyläkoski
JANNE KYLÄKOSKI

Date: 13.3.2001