

For: U.S. and/or Foreign Rights
 For: U.S. Application or
 U.S. Provisional Application
 For: U.S. Patent
 For: PCT Application
 By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

<i>(type or print name of inventors)</i>	Address	Nationality
HERRANEN, Timo	Vastamäentie 62, FIN-37830 Viiala, Finland	Finland
LAHTI, Saku	Annalankatu 11 A 2, FIN-33710 Tampere, Finland	Finland
VAPAAKOSKI, Simo	Lintukallionkuja 3, FIN-33680 Tampere, Finland	Finland
ALANKO, Lauri-Pekka	Puomikatu 4, FIN-33410 Tampere, Finland	Finland

hereby sells, assigns and transfers to

ASSIGNEE:

NOKIA MOBILE PHONES LTD

(type or print name of ASSIGNEE)

Finland

Nationality

Keilalahdentie 4

Address

FIN-02150 ESPOO, Finland

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

the entire right, title and interest
an undivided _____ percent (_____ %) interest
for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority
in and to any and all improvements which are disclosed in the invention entitled:

Antenna structure of an expansion card for an electronic device

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in

- (a) U.S. patent application executed on even date herewith
- (b) U.S. patent application executed on _____
- (c) U.S. provisional application naming the above inventor(s) for the above-entitled invention
- Express mail label no.: _____
Mailed: _____
- To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) U.S. application no. _____ / _____ filed on _____
- (e) International application no. PCT _____ / _____ / _____
filed on _____
- (f) U.S. patent no. _____ issued _____
- A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is also being assigned)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority

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PATENT
REEL: 010783 FRAME: 0338

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this 15 February 2000

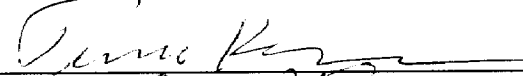
Date of signing

WARNING: *The date of signing must be the same as the date of execution of the application, if item (a) was checked above.*

(type name of inventor)

Signature of INVENTOR

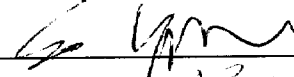
Timo Herranen



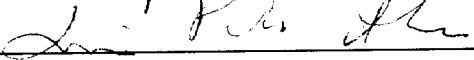
Saku Lahti



Simo Vapaakoski



Lauri-Pekka Alanko



Notarization or Legalization Page Added.

NOTE:

No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

(Assignment of Invention—Multiple Inventors [16.3.2]—page 3 of 3)

RECORDED: 05/05/2000

**PATENT
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