

12-03-2003



FORM PTO-1595 (Rev. 10/02) OMD No. 0651-0011 (exp. 6/30/2005)

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1. Name of conveying party(ies): Eun A Choi; Nae-soo Kim; Deock Gil Oh; Ji Won Jung 11-21-03 Additional name(s) of conveying party(ies) attached? [X] No [] Yes

2. Name and address of receiving party(ies): Name: Electronics and Telecommunications Research Institute Internal Address: Street Address: 161, Gajeong-dong, Yuseong-gu City: Daejeon 305-350 State: ZIP: Country: Republic of Korea Additional name(s) & address(es) attached? [X] No [] Yes

3. Nature of Conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 11/18/03

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) 10719509 B. Patent No.(s) Additional numbers attached? [X] No [] Yes

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Blakely, Sokoloff, Taylor & Zafman LLP Internal Address: Street Address: 12400 Wilshire Boulevard 7th Floor City: Los Angeles State: CA ZIP: 90025

6. Total number of applications and patents involved: 1 7. Total Fee (37 CFR 3.41).....\$ 40.00 [] Enclosed [] Authorized to be charged to deposit account 8. Deposit Account Number: 02-2666 (Attach duplicate copy of this page if paying by deposit account)

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

22387 U.S. PTO 10/719509 112103

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Recordation Services Director of the US Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

12/03/2003 LMUELLER 00000009 10719509 01 FC:8021 40.00 DP Docket No. 51876P420

PATENT REEL: 014740 FRAME: 0180

Attorney's Docket No :

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

Choi, Eun A ; Nae-soo Kim ; Oh, Deock Gil and Jung Ji won

Hereby sells, assigns, and transfers to:

Electronics and Telecommunications Research Institute

a corporation of Republic of Korea, having a principal place of business at:

161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea

_____ ("Assignee"), and its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent,

which has been executed by the undersigned concurrently herewith,

which was filed _____ and assigned Serial No. _____

and is entitled:

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and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: Nov. 18, 2003

Name: Choi, Eun A

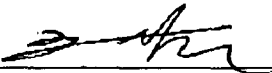
Date: Nov. 18, 2003


Name: Nae-soo Kim

Date: Nov. 18, 2003


Name: Oh, Deock Gil

Date: Nov. 18, 2003


Name: Jung, ji won