



06-06-2005

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PATENTS ONLY

B/O FORM PTO-1596 (Rev. 4/00)

Department of Commerce Patent and Trademark Office

To the Commissioner for Patents. Please record the attached original documents or copies thereof.

## 1. Name of Conveying Party(ies):

Integrated Programmable Communications, Inc.

## 2. Name and Address of Receiving Party(ies):

Name: Mediatek Incorporation

Street Address: 5F, No. 1-2, Innovation Rd. 1,  
Science-Based Industrial Park

## 3. Nature of Conveyance:

- ☒ Assignment      ☐ Merger  
☐ Security Agreement      ☐ Change of Name  
☐ Other:

City, State, Zip: Hsinchu, Taiwan, R.O.C.

Execution Date: 03/22/05

☐ Additional name(s) and address(es) attached.

## 4. (A) Patent Application Number(s):

10/724,742

## 4. (B) Patent Number(s):

If this document is being filed together with a new application, the execution date of the application is:

☐ Additional Numbers Attached.

Title: Channel Noise Estimating Method And Apparatus Applied To A Multi-Carrier System

Attorney Docket No.: CHEN3608/EM

## 5. Name and Address of Party to whom Correspondence Concerning this Document Should be Mailed:

Name: Eugene Mar

Total Number of Applications and Patents Involved: 1

7. Total Fee:  
(37 CFR 3.41)

\$40.00

23364  
CUSTOMER NUMBERBacon & Thomas, PLLC  
625 Slaters Lane Fourth Floor  
Alexandria, VA 22314☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit Account Number: 02-0200

## 9. Statement and Signature:

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

Eugene Mar

June 1, 2005

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and document: 3

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01 FC:8021

40.00 DP

PATENT  
REEL: 016626 FRAME: 0053

This Assignment agreement is applicable to an invention entitled:

07-090413-1

CHANNEL NOISE ESTIMATING METHOD AND APPARATUS APPLIED TO A MULTI-CARRIER SYSTEM

The patent rights referred to in this agreement are:

☐ a Patent Application for this invention, executed by the assignor(s) concurrently with this Assignment

☒ U.S. Patent Application Serial No. 10/724,742, filed December 2, 2003

☐ U.S. Patent Application No. \_\_\_\_\_, issued \_\_\_\_\_

The patent rights assigned under this agreement are:

☒ U.S. Patent rights only

☐ World wide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. Patent Application identified above.

The assignor(s) referred to in this agreement is (or are):

(Full name of first assignor) Integrated Programmable Communications, Inc. (Address) 11F, No. 93, Shuei-Yuan Street  
Hsinchu, Taiwan, R.O.C.

(Full name of second assignor, if any) \_\_\_\_\_ (Address) \_\_\_\_\_

(Full name of third assignor, if any) \_\_\_\_\_ (Address) \_\_\_\_\_

The first assignee referred to in this agreement is:

(Name of assignee) MEDIATEK INCORPORATION (Address of assignee) 5F, No. 1-2,  
Innovation Rd. 1, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.

The second assignee referred to in this agreement is:

(Name of assignee) \_\_\_\_\_ (Address of assignee) \_\_\_\_\_

The assignor(s), in consideration of \$1.00 paid by each assignee, and other good and valuable consideration, receipt of which is acknowledged, have and do hereby assign the following to each assignee; their successors and assigns:

the full and exclusive right to the invention;

an equal interest in and to the entire right, title and interest in and to the patent rights in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications; and the right to claim priority under 35 U.S.C. 119, based on any earlier foreign applications for this invention.

As to all U.S. patent applications assigned under this agreement, the assignor(s) hereby authorize(s) and requests the Director of Patents and Trademarks to issue all Letters Patent to the assignee(s) as the assignee(s) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said assignee(s), their successors and assigns.

Further, the assignor(s) agree(s) to communicate to said assignee(s), or their representatives, any facts known to the assignor(s) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said assignee(s), make all rightful oaths and generally do everything necessary or desirable to aid said assignee(s), their successors and assigns, to obtain and enforce proper protection for said invention.

Hsi-Yuan Hsu  
(Signature of sole or first assignor)

March 22, 2005

(Date)

Integrated Programmable Communications, Inc. Legal representative: Hsi-Yuan HSU