

08-15-2002

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027



102191636

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

1017 U.S. PAT. 10/215011 08/09/02

# **RECORDATION FORM COVER SHEET PATENTS ONLY**

**TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).**

## Submission Type

- ☒ New *08/09/02*
- ☐ Resubmission (Non-Recordation)  
Document ID#
- ☐ Correction of PTO Error  
Reel #  Frame #
- ☐ Corrective Document  
Reel #  Frame #

## Conveyance Type

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other
- U.S. Government**  
(For Use ONLY by U.S. Government Agencies)
- ☐ Departmental File ☐ Secret File

## Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1) RUEY-FENG CHEN Execution Date Month Day Year 7/10/2002

Name (line 2)

## Second Party

Name (line 1) *10/215011* Execution Date Month Day Year

Name (line 2)

## Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) TERAX COMMUNICATION TECHNOLOGIES INC. ☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1) 1F, 12, R&D II Rd., Science-Based Industrial Park

Address (line 2)

Address (line 3) Hsinchu Taiwan 300, R.O.C. Zip Code

## Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Mail documents to be recorded with required cover sheet(s) information to:  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**PATENT**  
**REEL: 013180 FRAME: 0188**

**Correspondent Name and Address**

Area Code and Telephone Number **410-465-6678**

Name **Morton J. Rosenberg**

Address (line 1) **Rosenberg, Klein & Lee**

Address (line 2) **3458 Ellicott Center Drive, Suite 101**

Address (line 3) **Ellicott City, MD 21043**

Address (line 4)

**Pages** Enter the total number of pages of the attached conveyance document including any attachments.

# **3**

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)


If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year  
**7/10/2002**

**Patent Cooperation Treaty (PCT)**

Enter PCT application number

only if a U.S. Application Number has not been assigned.

PCT  PCT  PCT   
PCT  PCT  PCT

**Number of Properties**

Enter the total number of properties involved.

# **1**

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ **40.00**

Method of Payment:  
Deposit Account

Enclosed ☒

Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# **18-2011**

Authorization to charge additional fees:

Yes ☒

No ☐

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

**Morton J. Rosenberg**

Name of Person Signing

Signature

Date

*Morton J. Rosenberg* **8/8/02**

## ASSIGNMENT DEED

This assignment agreement is applicable to an invention entitled (invention title) \_\_\_\_\_

### **CLOCK BALANCED SEGMENTATION DIGITAL FILTER PROVIDED WITH OPTIMUM AREA OF DATA PATH**

This PATENT RIGHT referred to in this agreement are:

- (check one) ☒ a Patent Application for this invention, executed by the ASSIGNOR(S) concurrently with this Assignment  
☐ U.S. Patent Application Serial No. \_\_\_\_\_, filed \_\_\_\_\_  
☐ U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_

The PATENT RIGHT assigned under this agreement are:

- (check one) ☒ U.S. Patent rights only  
☐ worldwide 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) **Ruey-Feng Chen**

(Address) **1F, 12, R&D II Rd., Science-Based Industrial Park, Hsinchu, Taiwan 300, R.O.C.**

(Full name of second joint inventor, if any) \_\_\_\_\_

(Address) \_\_\_\_\_

(Full name of third joint inventor, if any ) \_\_\_\_\_

(Address) \_\_\_\_\_

(Full name of fourth joint inventor, if any ) \_\_\_\_\_

(Address) \_\_\_\_\_

The First ASSIGNEE referred to in this agreement is:

(Name of Assignee) **Terax Communication Technologies Inc.**

(Address) **1F, 12, R&D II Rd., Science-Based Industrial Park, Hsinchu, Taiwan 300, R.O.C.**

The Second ASSIGNEE referred to in this agreement is:

(Name of Assignee) \_\_\_\_\_

(Address) \_\_\_\_\_

The Third ASSIGNEE referred to in this agreement is:

(Name of Assignee) \_\_\_\_\_

(Address) \_\_\_\_\_

The First ASSIGNEE is

- (check one) ☐ an individual  
☐ a partnership  
☒ a Corporation of **Taiwan, R.O.C.**  
(state or Country)

The Second ASSIGNEE is

- (check one) ☐ an individual  
☐ a partnership  
☐ a Corporation of \_\_\_\_\_  
(state or Country)

The Third ASSIGNEE is

- (check one) ☐ an individual  
☐ a partnership  
☐ a Corporation of \_\_\_\_\_  
(state or Country)

The ASSIGNOR(S), in consideration of \$1.00 paid by the 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 request(s) 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 an enforced proper protection for said invention.

(Signature of sole or first assignor)

**RUEY-FENG CHEN (CHEN IS FAMILY NAME)**

(Date)

(Signature of second assignor, if any)

(Date)

(Signature of third assignor, if any)

(Date)

(Signature of fourth assignor, if any)

(Date)

**PATENT**

RECORDED: 08/09/2002

REEL: 013180 FRAME: 0190