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HONORABLE COMMISSIONER OF  
PATENTS AND TRADEMARKS  
WASHINGTON, D.C. 20231



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SIR:

PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES) THEREOF.

## 1. NAME OF CONVEYING PARTY(IES)

Carsten Noeske  
Matthias Vierthaler  
Thomas Hilpert

8-12-02

Additional name(s) of conveying party(ies) attached? No

## 2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Micronas GmbH  
Hans-Bunte-Str. 19  
D-79108 Freiburg  
Germany

Additional name(s) of receiving party(ies) attached? No

## 3. NATURE OF CONVEYANCE

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

Execution Date: July 24, 2002

## 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): 10/178,774

B. Patent No(s): \_\_\_\_\_

C. Issue Batch No.: \_\_\_\_\_

D. Issue Date: \_\_\_\_\_

Additional numbers attached? No.

5. NAME AND ADDRESS OF PARTY TO WHOM  
CORRESPONDENCE CONCERNING DOCUMENT  
SHOULD BE DIRECTED:

Patrick J. O'Shea  
Samuels, Gauthier & Stevens LLP  
225 Franklin Street, Suite 3300  
Boston, Massachusetts 02110  
(617) 426-9180, Extension 121

6. TOTAL NUMBER OF APPLICATIONS  
AND PATENTS INVOLVED: 1

## 7. TOTAL FEE DUE: \$40.00 (Enclosed)

If any additional fee(s) are due, the Commissioner is hereby authorized to charge the Deposit Order Account noted in item 8.

## 8. DEPOSIT ACCOUNT NUMBER: 19-0079

## 9. 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.

Patrick J. O'Shea

*Patrick O'Shea*  
Signature

*August 7, 2002*  
Date

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the U.S. Patent and Trademark Office, Washington, D.C. 20231.

08/15/2002 TBI A21

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8/7/02

Date

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40.00 OP

Christie Mims

PATENT  
REEL: 013186 FRAME: 0178

**ASSIGNMENT**

Know all men by these presents that:

WHEREAS WE,

Carsten Noeske  
Leimeneckstr. 8d  
D-79286 Glottertal  
Germany

Matthias Vierthaler  
Blasiusstr. 2  
D-79108 Freiburg  
Germany

and

Thomas Hilpert  
Schwabenstr. 26  
D-79211 Denzlingen  
Germany

have made an invention for

**APPARATUS AND METHOD FOR DECODING BIPHASE SIGNALS**

the specification of which was filed with the United States Patent and Trademark Office on June 24, 2002 as Serial No. 10/178,774 and which claims priority to European Patent Application No. 01 115 255.0 filed June 23, 2001;

WHEREAS, Micronas GmbH, a corporation existing under the laws of Germany and having a place of business at Hans-Bunte-Str. 19, D-79108 Freiburg, Germany, for the benefit of itself, its successors and assigns, all inclusively hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the said invention, the said application, all inventions disclosed in said application and any and all Letters Patent of the United States and of all other countries which may be granted for the said invention or inventions, or any of them;

NOW, THEREFORE, for good and valuable consideration provided by said Assignee, the receipt whereof is hereby acknowledged, we do hereby sell, assign and transfer to the said Assignee the entire right, title and interest in and to the said invention, inventions and application, including all priority rights arising therefrom, all inventions disclosed in said application, and any and all Letters Patent of the United States, and of all other countries, together with the right to apply for such Letters Patent, which may be granted for the said invention, inventions or any of them,

TO HAVE, HOLD AND ENJOY the said invention, the said application, and the said Letters Patent, to said

**MICRONAS GmbH**

its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

AND we hereby authorize and request the Commissioner of Patents of the United States and the appropriate officers of all foreign patent offices to issue any and all Letters Patent which may be granted on the said application or applications above referred to, or for the said invention, or any of them, to the said Assignee in accordance with the terms of this instrument.

AND we hereby agree to execute and sign without further consideration any other legal document and any other assignments and any divisional, continuing, renewal, reissue or other application in and for all patents that may be appropriate and may be deemed necessary by the Assignee fully to secure to said Assignee its interests as aforesaid in and to the said invention or any part thereof and in and to the said patents or any of them.

AND we further covenant and agree that we will at any time upon request communicate to the said Assignee, its successors, assigns or other legal representatives, any facts known to us relating to the said invention and any patent that may be granted thereon, and will testify as to the same in any interference or litigation when requested to do so.

AND we hereby covenant for ourselves and our legal representatives that we have not hitherto assigned or granted any license to make, use or sell said invention, and that we will not henceforth purport to assign, license or execute any instrument to that effect in conflict with this assignment.

IN WITNESS WHEREOF, We have hereunto set our hands on the date below.

Carsten Noeske  
Carsten Noeske

24.07.2002  
Date

Matthias Vierthaler  
Matthias Vierthaler

24.07.2002  
Date

Thomas Hilpert  
Thomas Hilpert

24.07.2002  
Date