

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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|                       |                |
|-----------------------|----------------|
| SUBMISSION TYPE:      | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

**CONVEYING PARTY DATA**

| Name          | Execution Date |
|---------------|----------------|
| Kai-Wen Cheng | 11/24/2009     |
| Ko-Yin Lai    | 12/04/2009     |
| Yi-Ying Liao  | 12/01/2009     |
| Tai-Lai Tung  | 11/30/2009     |

**RECEIVING PARTY DATA**

|                 |                                    |
|-----------------|------------------------------------|
| Name:           | MStar Semiconductor, Inc.          |
| Street Address: | 4F-1, No. 26, Tai-Yuan St., Chupei |
| City:           | Hsinchu Hsien                      |
| State/Country:  | TAIWAN                             |
| Postal Code:    | 302                                |

**PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 12728912 |

**CORRESPONDENCE DATA**

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|                         |             |
|-------------------------|-------------|
| ATTORNEY DOCKET NUMBER: | M027-0008US |
| NAME OF SUBMITTER:      | Lynne Mahan |

Total Attachments: 3  
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**PATENT  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Serial Number..... 12/728,912  
Filing Date..... MARCH 22, 2010  
Inventorship.....  
Applicant..... MStar Semiconductor, Inc  
Attorney's Docket No. .... M027-0008US  
Client Docket No. .... MST0469-US  
Title:

**PATENT ASSIGNMENT**

**PARTIES TO THE ASSIGNMENT**

Assignor(s):

1. **Cheng, Kai-Wen**
2. **Lai, Ko-Yin**
3. **Yi-Ying Liao**
4. **Tai-Lai Tung**

Assignee:

MStar Semiconductor, Inc  
4F-1, No. 26, Tai-Yuan Street  
Chupet, Hsinchu Hsien, Taiwan 302  
Republic of China

**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled  
"Circuit for Detecting a Predetermined Symbol in a Digital Data Stream  
for which: and Associated Method"

a provisional application for United States Letters Patent was filed on MAY 11,  
2009 and was given U.S. Serial No. 61/176,955 and/or

a non-provisional application for United States Letters Patent was:  
 filed on 3/22/2010 and was given U.S. Serial No. 12/728,912 or filed

concurrently herewith. Assignors hereby authorize and request ASSIGNEE's legal representatives, of Lee & Hayes, PLLC, 601 W Riverside Ave, Suite 1400, Spokane, Washington 99201, who are associated with customer number 29150, to insert in the caption above the serial number and filing date of the patent application when known.

WHEREAS, MStar Semiconductor, Inc. (hereinafter referred to as ASSIGNEE), a corporation of Taiwan, Republic of China having a place of business at 4F-1, No. 26, Tai-Yuan Street, Chungpei, Hsinchu Hsien, Taiwan 302, Republic of China, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

24/11/2009  
Date (dd/mm/yyyy)

Cheng, Kai-Wen CHENG, KAI-WEN  
Inventor Signature

Address: 4F-1, No. 26, Tai-Yuan Street, ChuPei, Hsinchu Hsien 302, Taiwan, R.O.C.

04/12/2009  
Date (dd/mm/yyyy)

Lai, Ko-Yin Lai, Ko-Yin  
Inventor Signature

Address: 4F-1, No. 26, Tai-Yuan Street, ChuPei, Hsinchu Hsien 302, Taiwan, R.O.C.

01/12/2009  
Date (dd/mm/yyyy)

Yi-Ying Liao Yi-Ying Liao  
Inventor Signature

Address: 4F-1, No. 26, Tai-Yuan Street, ChuPei, Hsinchu Hsien 302, Taiwan, R.O.C.

30/11/2009  
Date (dd/mm/yyyy)

Tai-Lai Tung Tai-Lai Tung  
Inventor Signature

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