502373784 06/05/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Fan-Qing Zeng | 03/26/2013 |
| CHING HWA TEY | 03/26/2013 |
| XIAOQING XU | 03/26/2013 |

RECEIVING PARTY DATA

| Name: | UNITED MICROELECTRONICS CORP. |
|-----------------|---|
| Street Address: | No.3, Li-Hsin Road 2, Science-Based Industrial Park |
| City: | Hsin-Chu City |
| State/Country: | TAIWAN |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13911062 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | NAUP1649USA |
|-------------------------|-------------|
| NAME OF SUBMITTER: | KATE YEH |
| Signature: | /KATE YEH/ |
| Date: | 06/05/2013 |

REEL: 030554 FRAME: 0147

PATENT

Total Attachments: 6 source=1661705#page1.tif source=1661705#page2.tif source=1661705#page3.tif source=1661705#page4.tif source=1661705#page5.tif source=1661705#page6.tif

PATENT REEL: 030554 FRAME: 0148

COMBINE DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention: SEAL RING STRUCTURE AND METHOD OF FORMING THE SAME

| As the below named inventor, I hereby declare that: This declaration is directed to: | | |
|--|---|------------------|
| ☑ The attached application, or | | |
| ☐ United States application number | filed on | , or |
| ☐ PCT international application number | filed on | |
| The above-identified application was made or authorized to be made to | y me. | |
| I believe that I am the original inventor or an original joint inventor of a application. | claimed invention in the | e |
| I hereby acknowledge that any willful false statement made in this decunder18 U.S.C. 1001 by fine or imprisonment of not more than five (5) | | |
| In consideration of the payment by UNITED MICROELECTRON CORP. | IICS having a posta | al address of |
| No.3, Li-Hsin Road 2, Science-Based Industrial Park, Hsi | n-Chu City 300, Tai | wan, R.O.C. |
| (referred to as "ASSIGNEE"below) to I of the sum of One Dollar (\$ 1.0 acknowledged, andfor other good and valuable consideration. | 0), the receipt of which | is hereby |
| I hereby sell, assign and transfer to ASSIGNEE and the successors at the entire right, title and interest in and to any and all improvements w invention as above-identified application and, in and to, all Letters Patinvention by the above application or any continuations, continuation-is substitutes, or extensions thereof, and as to Letters Patent any reissue. | hich are disclosed in the ent to be obtained for sa n-part, divisions, renewa | e aid als, |
| I hereby covenant that no assignment, sale, agreement or encumbran entered into which would conflict with this assignment; | ce has been or will be r | made or |
| I further covenant that ASSIGNEE will, upon its request, be provided and documents relating to said invention and said Letters Patent and known and accessible to I and will testify as to the same in any interferelated thereto and will promptly execute and deliver to ASSIGNEE or | egal equivalents as ma rence, litigation proceed | y be |
| representatives any and all papers, instruments or affidavits required t maintain, issue and enforce said application, said invention and said L equivalents thereof which may be necessary or desirable to carry out IN WINTNESS WHEREOF, I have hereunto set hand and seal this | etters Patent and said the proposes thereof | Date of signing) |
| Note: An application data sheet (PTO/SB/14 or equivalent), including inventive entity, must accompany this form. Use this form for each add | | |

Page 1 of 6

PATENT

REEL: 030554 FRAME: 0149

F#NPO-P0002E-US1201

Docket No NAUP1649USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: Fan-Qin

Fan-Qing Zeng

Date:

MAR 26 2013

Signature:

Fan Qing Zeng

Page 2 of 6

NPO#NAU-P1649-USA:0 CUST#UMCD-2012-0517

F#NPO-P0002E-US1201 DSC0-102U003037

COMBINE DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention: SEAL RING STRUCTURE AND METHOD OF FORMING THE SAME

| As the below named inventor, I here This declaration is directed to: | by declare that: | | | |
|--|---|---|--|-------------------------|
| ☑ The attached application, or | | | | |
| ☐ United States application nu | ımber | filed | on | , or |
| ☐ PCT international applicatio | n number | file | ed on | |
| The above-identified application was | made or authorized | I to be made by me. | | |
| I believe that I am the original invent application. | or or an original joint | t inventor of a claime | ed invention in | the |
| I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr | I false statement ma isonment of not mor | de in this declaration e than five (5) years | n is punishable , or both. | 1 |
| In consideration of the payment by | UNITED MICRO | ELECTRONICS | having a pos | stal address of |
| No.3, Li-Hsin Road 2, Science | -Based Industria | al Park, Hsin-Chu | ı City 300, T | aiwan, R.O.C. |
| (referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar | | | receipt of which | h is hereby |
| I hereby sell, assign and transfer to a the entire right, title and interest in a invention as above-identified applica invention by the above application of substitutes, or extensions thereof, ar | nd to any and all imp tion and, in and to, a r any continuations, | provements which ar all Letters Patent to I continuation-in-part, | e disclosed in be obtained for divisions, rene | the · said ewals, |
| I hereby covenant that no assignment entered into which would conflict with | nt, sale, agreement on this assignment; | or encumbrance has | been or will be | e made or |
| I further covenant that ASSIGNEE wand documents relating to said inverknown and accessible to I and will terelated thereto and will promptly exe | ntion and said Letter estify as to the same | s Patent and legal e in any interference, | quivalents as r litigation proce | nay be |
| representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be ne IN WINTNESS WHEREOF, I have h | olication, said inventi ecessary or desirable | on and said Letters to carry out the pro | Patent and sai | d (Date of signing) |
| Note: An application data sheet (PT0 inventive entity, must accompany thi | | | | |

Page 3 of 6

NPO#NAU-P1649-USA:0 CUST#UMCD-2012-0517 F#NPO-P0002E-US1201 DSC0-102U003037

Docket No NAUP1649USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: CHING HWA TEY

Date:

MAR 26 2013

Signature: CHIHE HWA TEX

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NPO#NAU-P1649-USA:0 CUST#UMCD-2012-0517 F#NPO-P0002E-US1201 DSC0-102U003037

PATENT REEL: 030554 FRAME: 0152

COMBINE DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention: SEAL RING STRUCTURE AND METHOD OF FORMING THE SAME

| As the below named inventor, I here This declaration is directed to: | by declare that: | | |
|--|--|--|--|
| ☑ The attached application, or | | | |
| ☐ United States application nu | ımber | filed on | , or |
| ☐ PCT international applicatio | n number | filed on | |
| The above-identified application was | made or authorized to be r | nade by me. | |
| I believe that I am the original invent application. | or or an original joint invent | or of a claimed inventi | ion in the |
| I hereby acknowledge that any willfu under18 U.S.C. 1001 by fine or impr | | | |
| In consideration of the payment by | UNITED MICROELECT | FRONICS having | a postal address of |
| No.3, Li-Hsin Road 2, Science | -Based Industrial Park | , Hsin-Chu City 3 | 00, Taiwan, R.O.C. |
| (referred to as "ASSIGNEE"below) to acknowledged, andfor other good ar | o I of the sum of One Dollar nd valuable consideration. | (\$ 1.00), the receipt of | of which is hereby |
| I hereby sell, assign and transfer to a the entire right, title and interest in a invention as above-identified applica invention by the above application of substitutes, or extensions thereof, ar | nd to any and all improveme ition and, in and to, all Lette r any continuations, continu | ents which are disclos rs Patent to be obtain ation-in-part, divisions | sed in the ned for said s, renewals, |
| I hereby covenant that no assignment entered into which would conflict with | nt, sale, agreement or encul h this assignment; | mbrance has been or | will be made or |
| I further covenant that ASSIGNEE wand documents relating to said inverknown and accessible to I and will terelated thereto and will promptly exe | ntion and said Letters Paten estify as to the same in any i | t and legal equivalent interference, litigation | ts as may be |
| representatives any and all papers, i maintain, issue and enforce said app equivalents thereof which may be no IN WINTNESS WHEREOF, I have h | olication, said invention and ecessary or desirable to care | said Letters Patent ar ry out the proposes th | nd said nereof. |
| Note: An application data sheet (PTC inventive entity, must accompany thi | | | |
| | | | |

Page 5 of 6

F#NPO-P0002E-US1201 DSC0-102U003037

Docket No NAUP1649USA

LEGAL NAME OF INVENTOR(ASSIGNOR)

Inventor: XIAOQING XU Date: MAR 2 6 2013

Signature: XIAOQING XU

NPO#NAU-P1649-USA:0 CUST#UMCD-2012-0517 Page 6 of 6

F#NPO-P0002E-US1201 DSC0-102U003037

PATENT - --REEL: 030554 FRAME: 0154

RECORDED: 06/05/2013