# 507193022 03/23/2022

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHENG-HSIANG FAN	01/07/2021

#### **RECEIVING PARTY DATA**

Name:	NANYA TECHNOLOGY CORPORATION	
Street Address:	NO.98, NANLIN RD., TAISHAN DIST.	
City:	NEW TAIPEI CITY	
State/Country:	TAIWAN	
Postal Code:	243	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17701972

#### **CORRESPONDENCE DATA**

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 6266287931

Email: steven@ifpatent.com

Correspondent Name: XUAN ZHANG

Address Line 1: 2410 MOUNTAIN BROOK DR

Address Line 4: HACIENDA HEIGHTS, CALIFORNIA 91745

ATTORNEY DOCKET NUMBER:	USP-NT207
NAME OF SUBMITTER:	XUAN ZHANG
SIGNATURE:	/XUAN ZHANG/
DATE SIGNED:	03/23/2022

**Total Attachments: 2** 

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PATENT 507193022 REEL: 059374 FRAME: 0876

2020-0853-US N21717/US10979

### ASSIGNMENT

WHEREAS, I(we), <u>FAN, CHENG-HSIANG</u>, whose post office address(es) appear(s) below, hereinafter referred to as ASSIGNOR, have invented certain new and useful invention entitled

SEMICONDUCTOR DEVICE WITH AIR GAP BETWEEN BIT LINE AND CAPACITOR
CONTACT AND METHOD FOR FORMING THE SAME
(hereinafter referred to as the INVENTION) for which an application for United States Letters Patent /Utility Patent is executed on even date herewith unless at least one of the following is checked:

United States Design Patent was
executed on:
filed on:
serial No.:
established by PCT International Patent Application No.:
filed:
designating the
United States of America
sissued on
as U.S. Patent No.:
WHEREAS. NANYA TECHNOLOGY CORPORATION, whose post office address is NO.98, NANLIN RD.,

WHEREAS, NANYA TECHNOLOGY CORPORATION, whose post office address is NO.98, NANLIN RD...

TAISHAN DIST., NEW TAIPEI CITY 243, TAIWAN (R.O.C.), hereinafter referred to as Assignee, is desirous of acquiring the entire right, title and interest in and to the same in the United States and its territorial possessions;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we), ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application for the full term or terms for which the same may be granted, including all priority rights under any International Convention.

ASSIGNOR further covenants that no assignments, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said Invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said Invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the Invention that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance, litigation and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

Assignor Name FAN, CHENG-HSIANG	Address 15F3, NO. 1, ALY. 2, LN. 27, YINHE ST., BADE DIST., TAOYUAN CITY 334, TAIWAN (R.O.C.)
Signature of Assignor (X) Fan, Cheng-14, ang Name of Witness (optional)	Date of Signature  (X) O//O/) (20)  Name of Witness (optional)
Signature of Witness (optional)	Signature of Witness (Optional)

PATENT REEL: 059374 FRAME: 0877



# **UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 26, 2021

PTAS

MUNCY, GEISSLER, OLDS & LOWE, PC 4000 LEGATO RD., SUITE 310 FAIRFAX, VA 22033

506523594

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RECORDATION DATE: 02/25/2021 REEL/FRAME: 055407/0093

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 5481/0705PUS1

ASSIGNOR:

FAN, CHENG-HSIANG DOC DATE: 01/07/2021

ASSIGNEE:

NANYA TECHNOLOGY CORPORATION NO.98, NANLIN RD., TAISHAN DIST., NEW TAIPEI CITY, TAIWAN 243

APPLICATION NUMBER: 17178984 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: SEMICONDUCTOR DEVICE WITH AIR GAP BETWEEN BIT LINE AND CAPACITOR

CONTACT AND METHOD FOR FORMING THE SAME

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WW PATENT

122 REEL: 059374 FRAME: 0878

RECORDED: 03/23/2022