506500800 02/11/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6547575

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TANYA MALHOTRA	01/27/2021
TINGLING RAO	01/27/2021
ANDREW JOHN OUDERKIRK	02/10/2021
ARMAN BOROMAND	01/27/2021
LAFE JOSEPH PURVIS	01/28/2021
OLEG YAROSHCHUK	01/28/2021
SHENG YE	01/28/2021
SANDEEP REKHI	01/27/2021

RECEIVING PARTY DATA

Name:	FACEBOOK TECHNOLOGIES, LLC
Street Address:	1601 WILLOW ROAD
City:	MENLO PARK
State/Country:	CALIFORNIA
Postal Code:	94025

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17159746

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: 9733151365

Email: fbdocketing@MILLBURNIP.COM

Correspondent Name: MILLBURN IP PLLC

Address Line 1: 4 MEADOWBROOK ROAD

Address Line 4: SHORT HILLS, NEW JERSEY 07078

ATTORNEY DOCKET NUMBER:	00261.0044.01US
NAME OF SUBMITTER:	HONGBIAO YU
SIGNATURE:	/Hongbiao Yu/

PATENT 506500800 REEL: 055233 FRAME: 0478

DATE SIGNED: 02/11/2021		
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 6		
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source=0044-01-Assgn-Dec-filed#page5.tif		
source=0044-01-Assgn-Dec-filed#page6.tif		

PATENT REEL: 055233 FRAME: 0479

COMBINED ASSIGNMENT/DECLARATION (37 CFR 1.63)

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Facebook Technologies**, **LLC**, a Delaware limited liability company, having a place of business at 1601 Willow Road, Menlo Park, California 94025 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

Application No. 17/159,746, entitled "HIGH REFRACTIVE INDEX OPTICAL DEVICE FORMED BASED ON SOLID CRYSTAL AND FABRICATION METHOD THEREOF" filed on January 27, 2021, which claims priority from a provisional application, filed on February 25, 2020, now bearing US Application No. 62/981,528, and a provisional application, filed on August 9, 2020, now bearing US Application No. 63/063,379.

- 2. The entire worldwide right, title, and interest in and to:
- (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

Attorney Docket No.: 00261.0044.01US 1 PATENT
REEL: 055233 FRAME: 0480

Title: HIGH REFRACTIVE INDEX OPTICAL DEVICE FORMED BASED ON SOLID

CRYSTAL AND FABRICATION METHOD THEREOF

Date Filed: January 27, 2021 Application No.: 17/159,746

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

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

By signing below, INVENTOR further attests to the following:

- The APPLICATION was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATION.
- INVENTOR acknowledges the duty to disclose to the United States Patent and Trademark Office all information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56, which for a continuation-in-part includes information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56 that became available between the filing date of the prior patent application and the National or PCT filing date of the continuation-in-part application.

INVENTOR hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Name and Signature	Date of Signature	
Tanya malhotra Yanya Mainotra (1an 27, 2021 22:48 CSY)	Jan 27, 2021	
Tanya MALHOTRA		
Name and Signature	Date of Signature	
Tingling Rac Yingling Rac (22.35 PST)	Jan 27, 2021	
Tingling RAO		
Name and Signature	Date of Signature	
Andrew John Ouderkirk Andrew John Guderkirk (Feb 10, 2021 21 22 FST)	Feb 10, 2021	
Andrew John OUDERKIRK		

Attorney Docket No.: 00261.0044.01US 2 PATENT

REEL: 055233 FRAME: 0481

Title: HIGH REFRACTIVE INDEX OPTICAL DEVICE FORMED BASED ON SOLID

CRYSTAL AND FABRICATION METHOD THEREOF

Date Filed: January 27, 2021 Application No.: 17/159,746

Name and Signature

Arman Boromand

Arman BOROMAND

Name and Signature

<u>Lafe Purvis</u> Lafe Purvis (386-28, 2021-06:12 PSY)

Lafe Joseph PURVIS

Name and Signature

Oleg YAROSHCHUK

Name and Signature

Sheng Ye Sheng Ye (Jan 28, 202), 08,55 PST)

Sheng YE

Name and Signature

Sandeep Rekhi Sandeep Rekhi (Jan 27, 2021 21:14 PST)

Sandeep REKHI

Date of Signature

Jan 27, 2021

Date of Signature

Jan 28, 2021

Date of Signature

Date of Signature

Jan 28, 2021

Date of Signature

Jan 27, 2021

Attorney Docket No.: 00261.0044.01US 3 PATENT

COMBINED ASSIGNMENT/DECLARATION (37 CFR 1.63)

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Attorney Docket No.: 00261.0044.01US 1 PATENT
REEL: 055233 FRAME: 0483

Title: HIGH REFRACTIVE INDEX OPTICAL DEVICE FORMED BASED ON SOLID

CRYSTAL AND FABRICATION METHOD THEREOF

Date Filed: January 27, 2021 Application No.: 17/159,746

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INVENTOR hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Name and Signature	Date of Signature	
Tanya MALHOTRA		
Name and Signature	Date of Signature	
Name and Signature	Date of Signature	
Tingling RAO		
Name and Signature	Date of Signature	
A L A L OUDDDIANT		
Andrew John OUDERKIRK		

Attorney Docket No.: 00261.0044.01US 2 PATENT
REEL: 055233 FRAME: 0484

Title:	HIGH REFRACTIVE INDEX	OPTICAL DEVICE FORMED	BASED ON SOLID

CRYSTAL AND FABRICATION METHOD THEREOF

January 27, 2021

Date Filed:

Sandeep REKHI

17/159,746 Application No.: Name and Signature Date of Signature Arman BOROMAND Name and Signature Date of Signature **Lafe Joseph PURVIS** Name and Signature Date of Signature Oleg Yaroshchuk Jan 28, 2021 Oleg YAROSHCHUK Name and Signature Date of Signature **Sheng YE** Name and Signature Date of Signature

Attorney Docket No.: 00261.0044.01US 3 PATENT

RECORDED: 02/11/2021 REEL: 055233 FRAME: 0485