

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT8220262

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                      |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                          |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                     |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>               |
| JIAN WANG                                                                                                                                                                                       | 01/16/2021                          |
| KARL BAYER                                                                                                                                                                                      | 01/15/2021                          |
| SHREE K. NAYAR                                                                                                                                                                                  | 01/17/2021                          |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                     |
| <b>Name:</b>                                                                                                                                                                                    | SNAP INC.                           |
| <b>Street Address:</b>                                                                                                                                                                          | 3000 31ST STREET                    |
| <b>City:</b>                                                                                                                                                                                    | SANTA MONICA                        |
| <b>State/Country:</b>                                                                                                                                                                           | CALIFORNIA                          |
| <b>Postal Code:</b>                                                                                                                                                                             | 90405                               |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                     |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                       |
| Application Number:                                                                                                                                                                             | 17138653                            |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                     |
| <b>Fax Number:</b>                                                                                                                                                                              |                                     |
| <i>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.</i> |                                     |
| <b>Email:</b>                                                                                                                                                                                   | request@slwip.com                   |
| <b>Correspondent Name:</b>                                                                                                                                                                      | SCHWEGMAN LUNDBERG & WOESSNER, P.A. |
| <b>Address Line 1:</b>                                                                                                                                                                          | P.O. BOX 2938                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | MINNEAPOLIS, MINNESOTA 55402        |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 4218.787US1                         |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | CATINA JENSEN                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /CaTina Jensen/                     |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 10/13/2023                          |
| <b>Total Attachments: 6</b>                                                                                                                                                                     |                                     |
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RECORDATION FORM COVER SHEET  
PATENTS ONLY

Form PTO-1595 (Rev. 6-18)  
OMB No. 0651-0027 (exp. 10/31/2024)

U.S. Department of Commerce  
United States Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Jian Wang, Karl Bayer, Shree K. Nayar

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): January 16, 2021, January 15, 2021,  
January 17, 2021

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

2. Name and address of receiving party(ies):

Name: Snap Inc.

Street 3000 31st Street

Address:

City: Santa Monica

State/Province: CA

Zip: 90405

Country: United States of America

Additional name(s) & address(es) attached?  
☐ Yes ☒ No

4. Application number(s) or patent number(s): ☐ This document serves as an Oath/Declaration (37 CFR 1.63)

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 17/138,653

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Linh-Han H. Nguyen

Address:

Schwegman Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, Minnesota 55402

Phone Number: (408) 660-2981

Docket Number: 4218.787US1

Email Address: request@slwip.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41): \$0.00

☐ Authorized to be charged to deposit account 19-0743

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account No.: 19-0743

Authorized User Name: Linh-Han H. Nguyen

9. Signature:

Linh-Han H. Nguyen/Reg. No. 71,874

Name of Person Signing

/ RLH

Signature

/ Oct 13, 2023

Date

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

**PATENT**  
**REEL: 065214 FRAME: 0113**

### ASSIGNMENT

WHEREAS, Jian Wang, Karl Bayer and Shree K. Nayar (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention"); as described in the patent application filed on December 30, 2020, assigned US application serial number 17/138,653, and titled FAST DATA ACCESSING SYSTEM USING OPTICAL BEACONS and as described in a provisional patent application filed on December 30, 2019 assigned United States application serial number 62/954,932, and titled FAST DATA ACCESSING SYSTEM USING OPTICAL BEACONS.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Snap Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 2772 Donald Douglas Loop North, Santa Monica, CA 90405, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;  
such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 144407 may (directly or through his/her designee) delete, insert, or alter any

information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment

Assignors: Jian Wang et al.

Title: FAST DATA ACCESSING SYSTEM USING OPTICAL BEACONS

Page 3 of 5

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Docket No: 4218,787US1  
Client Ref. No. P01100-US1

Assignor:

(Signature):     /     *Jian Wang*     /

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Name: Jian Wang

City/State or Country: Long Island City, NY

Date:             Jan 16, 2021

Assignment

Assignors: Jian Wang et al.

Title: FAST DATA ACCESSING SYSTEM USING OPTICAL BEACONS

Page 4 of 5

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Docket No: 4218,787US1  
Client Ref. No. P01100-US1

Assignor:

(Signature):     /                      *Karl Bayer*                      /

\_\_\_\_\_  
Name: Karl Bayer

City/State or Country: New York, NY

Date:                Jan 15, 2021

Assignor:

(Signature): / Shree Nayar /

Name: Shree K. Nayar

City/State or Country: New York, NY

Date: Jan 17, 2021