## 505715533 10/09/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5762343

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

#### **CONVEYING PARTY DATA**

| Name                  | Execution Date |  |  |
|-----------------------|----------------|--|--|
| SAMUEL EDWARD HARE    | 09/13/2017     |  |  |
| FEDIR POLIAKOV        | 09/14/2017     |  |  |
| GUOHUI WANG           | 09/12/2017     |  |  |
| XUEHAN XIONG          | 09/14/2017     |  |  |
| JIANCHAO YANG         | 09/12/2017     |  |  |
| LINJIE YANG           | 09/13/2017     |  |  |
| SHAH TANMAY ANILKUMAR | 09/13/2017     |  |  |

### **RECEIVING PARTY DATA**

| Name:           | SNAP INC.                      |
|-----------------|--------------------------------|
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| City:           | SANTA MONICA                   |
| State/Country:  | CALIFORNIA                     |
| Postal Code:    | 90405                          |

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

| Property Type       | Number   |  |  |  |  |  |  |
|---------------------|----------|--|--|--|--|--|--|
| Application Number: | 15706096 |  |  |  |  |  |  |

#### **CORRESPONDENCE DATA**

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| ATTORNEY DOCKET NUMBER: | 4218.549US1         |
|-------------------------|---------------------|
| NAME OF SUBMITTER:      | MICHELLE RED BEAR   |
| SIGNATURE:              | /Michelle Red Bear/ |
| DATE SIGNED:            | 10/09/2019          |
|                         | •                   |

**Total Attachments: 10** 

PATENT REEL: 050669 FRAME: 0052

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# RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 4218.549US1 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Snap Inc. Samuel Edward Hare, Fedir Poliakov, Guohui Wang, Xuehan Xiong, Jianchao Yang, Linjie Yang, Shah Street Address: 2772 Donald Douglas Loop North Tanmay Anilkumar City: Santa Monica State: CA Zip: 90405 Additional name(s) of conveying party(ies) attached? Country: United States of America Additional name(s) & address(es) attached? [ ]Yes [X]No [ ]Yes [X]No 3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: September 13, 2017, September 14, 2017, September 12, 2017, September 14, 2017, September 12, 2017, September 13, 2017, September 14, 2017, September 15, 2017, September 16, 2017, September 16, 2017, September 17, 2017, September 18, 2017, September 18, 2017, September 18, 2017, September 19, 2017, September 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 15/706,096, Filed September 15, 2017 Additional numbers attached? [ ]Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Christopher J. Brittain [[Enclosed [Authorized to be charged to deposit account 19-Address: 0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, Minnesota 55402 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

Christopher J. Brittain/Reg. No. 67,497

Name of Person Signing

Total number of pages including cover sheet: 10

#### **ASSIGNMENT**

|  | WHE     | REA   | S, Sami  | uel Ec  | dwar  | d Hare,    | Fedir Poliak  | ιον, Gι | uohui Wan   | g, Xu | ehan )   | (iong, | Jiancha  | ao Ya | ang, |
|--|---------|-------|----------|---------|-------|------------|---------------|---------|-------------|-------|----------|--------|----------|-------|------|
| Linjie   | Yang .  | and   | Shah T   | Гапта   | ay Ar | nilkumar   | (hereinafte   | er the  | "Undersig   | ned"  | ) have   | made   | one o    | or m  | ore  |
| inven  | tions a | nd ot | ther sub | bject r | natte | er (hereii | nafter collec | tively  | referred to | as th | ie "Inve | ention | "); as d | escri | bed  |
| in th  | e pate  | ent a | applicat | tion f  | filed | on         |               |         | assigned    | US    | applica  | ation  | serial   | num   | ıber |
| , and titled REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS. |         |       |          |         |       |            |               |         |             |       |          |        |          |       |      |

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 63 Market Street, Venice, CA 90291, 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;

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Assignors: Samuel Edward Hare et al.

Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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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. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

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:

Assignors: Samuel Edward Hare et al.

Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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Assignor:

(Signature): / Samuel Edward Hare /

Name: Samuel Edward Hare
City/State: Pacific Palisades, CA

Date: 9/13/2017

Assignors: Samuel Edward Hare et al.

Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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Name: Fedir Poliakov

City/State: Marina Del Rev, CA

Date: 9/14/2017

Assignors: Samuel Edward Hare et al.

Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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Date: 9/12/2017

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Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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(Signature): / Jiandao Yang

Name: **Jianchao Yang** City/State: **Venice, CA** 

Date: 9/12/2017

Assignors: Samuel Edward Hare et al.

Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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Name: Linjie Yang
City/State: Los Angeles, CA

Date: 9/13/2017

Assignors: Samuel Edward Hare et al.

Title: REAL-TIME TRACKING-COMPENSATED IMAGE EFFECTS

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Assignor:

(Signature): / Shah Tanmay Anilkumar /

Name: Shah Tanmay Anilkumar City/State: Los Angeles, CA

Date: 9/13/2017

**RECORDED: 10/09/2019** 

PATENT REEL: 050669 FRAME: 0063