506732058 06/24/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

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PROPERTY NUMBERS Total: 2

Property Type	Number	
Application Number:	15401875	
Application Number:	16527707	

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DATE SIGNED:	06/24/2021	

PATENT 506732058 REEL: 056648 FRAME: 0156

Total Attachments: 2

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PATENT REEL: 056648 FRAME: 0157

INVENTOR ASSIGNMENT

This document is an assignment of inventor ownership rights. It is effective as to each Assignor as of the date it is executed below.

I, as a below named Assignor, believe I am an inventor of subject matter disclosed in the application for United States Letters Patent entitled "Deriving Semantic Relationships Based on Empirical Organization of Content by Users," filed concurrently herewith ("the Patent Application"). I believe the other Assignors named below are also inventors of subject matter disclosed in the Patent Application.

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, I hereby assign my entire right, title, and interest in and to all patents and applications for patents that claim priority to or claim the benefit of subject matter disclosed in the Patent Application to bublup technologies, Inc., a Virginia corporation, which has a principal place of business at 181 Chain Bridge Rd., McLean, VA 22101 ("Assignee").

I hereby certify and promise that I have not assigned or licensed any part of my rights in the Patent Application to any other party.

In addition to the above assignment, I agree to execute all papers needed in connection with the prosecution of the Patent Application and any continuing applications, divisional applications, continuations-in-part, or foreign counterparts. I further agree to execute separate assignments and perform all other lawful acts deemed necessary or desirable by Assignee, its successors, legal representatives, or assigns, in order to perfect title to any patents and patent applications that claim priority to or claim the benefit of subject matter disclosed in the Patent Application.

I authorize and request the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from the Patent Application or any divisions or continuing applications thereof to Assignee, as assignee of the entire interest.

Additionally, I hereby grant to any duly empowered legal representative, including the firm CLOUDIGY LAW, PLLC or any practitioner associated therewith, and all patent practitioners associated with Customer Number 128725, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the

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I certify that I have the full right to convey the above rights.

Date: _	3/19/2015	Signature: Assignor:	Alain J. Cohen
Date: _	3/19/2015	Signature: Assignor:	Marc A. Cohen
Date:	3/19/2015	Signature: Assignor:	Ryan McKeown
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Signature: Assignor:

Alberto Morales

Date: 3/19/2015