504075088 10/31/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4121755

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
SEQUENCE:	2		

CONVEYING PARTY DATA

Name	Execution Date
CITADEL LLC	10/17/2016

RECEIVING PARTY DATA

Name:	KCG IP HOLDINGS LLC		
Street Address:	131 SOUTH DEARBORN STREET		
City:	CHICAGO		
State/Country:	ILLINOIS		
Postal Code:	60603		

PROPERTY NUMBERS Total: 15

Property Type	Number			
Patent Number:	8719179			
Application Number:	14748206			
Application Number:	14225405			
Application Number:	14532972			
Application Number:	13557812			
Application Number:	13739381			
Application Number:	13652749			
Application Number:	13568493			
Application Number:	62150267			
Application Number:	14843927			
Application Number:	14843933			
Application Number:	62213574			
Application Number:	62214882			
Application Number:	62237498			
PCT Number:	US2013038702			

CORRESPONDENCE DATA

Fax Number: (212)446-4900

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.

504075088 PATENT REEL: 040179 FRAME: 0035

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NAME OF SUBMITTER: SUSAN ZABLOCKI

SIGNATURE: /susan zablocki/

DATE SIGNED: 10/31/2016

Total Attachments: 3

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PATENT REEL: 040179 FRAME: 0036

CONFIRMATORY PATENT ASSIGNMENT

THIS CONFIRMATORY PATENT ASSIGNMENT (this "<u>Assignment</u>") is made and entered into as of October 17, 2016 ("<u>Effective Date</u>"), by and between CITADEL LLC, a Delaware limited liability company ("<u>Assignor</u>"), and KCG IP Holdings LLC, Delaware limited liability company ("<u>Assignee</u>").

WHEREAS, Assignor and Assignee are parties to that certain Transfer and Assignment and Assumption Agreement (the "Agreement") of even date herewith, pursuant to which Assignee purchased the IP Assets (as defined in the Purcahse Agreement) from Assignor; and

WHEREAS, pursuant to the Agreement, Assignor wishes to assign to Assignee, and Assignee wishes to acquire from Assignor, all of Assignor's right, title and interest in and to all patents, patent applications and patent disclosures, and all renewals, reissues, reexaminations, divisionals, continuations, continuations-in-part and extensions thereof, and all foreign equivalents thereof, including, without limitation, the subject matter of all claims which may be obtained therefrom, for the United States and for all foreign countries, including, without limitation, the patent applications set forth on Schedule A attached hereto (collectively, the "Patents").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over to Assignee its entire right, title and interest in and to the Patents, for Assignee's own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made, together with all income, royalties, damages or payments due or payable as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present or future infringement or other unauthorized use of the Patents, with the right to sue for and collect the same, for Assignee's own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives.

Assignor authorizes and requests the United States Commissioner of Patents and Trademarks, and the corresponding entity or agency in any applicable foreign country, to record Assignee as assignee and owner of the Patents, and to issue any and all letters patent of the United States with respect thereto to Assignee, as assignee of the entire right, title and interest in, to and under the same, for the sole use and enjoyment of Assignee, its successors, assigns or other legal representatives.

This Assignment may be signed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

* * * * *

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their duly authorized representatives as of the Effective Date.

CITADEL LLC	KCG IP HOLDGINS LLC
Name:Michael Weiner	Name:Gerald A. Beeson
Fitle: Authorized Signatory	Title: Authorized Representative

[Citadel Confirmatory Patent Assignment]

KS

SCHEDULE A

Title	Application Number	Application Date	Patent Number	Status
RECRUITING SERVICE GRAPHICAL USER INTERFACE	13493791	06-11-2012	8,719,179	Issued
RECRUITING SERVICE GRAPHICAL USER INTERFACE	14/748,206	06-23-2015		Pending
RECRUITING SERVICE GRAPHICAL USER INTERFACE	PCT/US2013/ 038702	04-29-2013		Pending
RECRUITING SERVICE GRAPHICAL USER INTERFACE	14/225,405	03-25-2014		Pending
METHOD AND APPARATUS FOR ENHANCING JOB RECRUITING	14/532,972	11-04-2014		Pending
METHOD AND APPARATUS FOR ENHANCING JOB RECRUITING	13/557,812	07-25-2012		Abandoned
SOCIAL MEDIA DATA FILTERING FOR ELECTRONIC JOB RECRUITING	13/739,381	01-11-2013		Pending
METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT TO GENERATE PSYCHOLOGICAL, EMOTIONAL, AND PERSONALITY INFORMATION FOR ELECTRONIC JOB RECRUITING	13/652,749	10-16-2012		Pending
METHOD AND APPARATUS FOR ELECTRONIC JOB RECRUITING	13/568,493	08-07-2012		Pending
CAPTURING CANDIDATE PROFILES	62/150,267	04-20-2015		Pending
CAPTURING CANDIDATE PROFILES	14/843,927	09-02-2015		Pending
CAPTURING CANDIDATE PROFILES	14/843,933	09-02-2015		Pending
PREDICTING CANDIDATE READINESS TO CHANGE JOBS	62/213,574	09-02-2015		Pending
PREDICTING CANDIDATE READINESS TO CHANGE JOBS	62/214,882	09-04-2015		Pending
DYNAMIC TOOL FOR CREATING JOB POSTS AND RECRUITING CANDIDATES	62/237,498	10-05-2015		Pending
RECRUITMENT ENHANCEMENT SYSTEM	PCTUS13387 02	04-29-2013		Pending

- 3 -

RECORDED: 10/31/2016

PATENT REEL: 040179 FRAME: 0039