

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>PHILIP K. THAYER</td> <td>12/18/2013</td> </tr> <tr> <td>MILES F. BETRO</td> <td>12/18/2013</td> </tr> <tr> <td>LISA J. EMSBO-MATTINGLY</td> <td>12/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	PHILIP K. THAYER	12/18/2013	MILES F. BETRO	12/18/2013	LISA J. EMSBO-MATTINGLY	12/18/2013		
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<table border="1"> <tr> <td>Name:</td> <td>FMR, LLC</td> </tr> <tr> <td>Street Address:</td> <td>82 DEVONSHIRE STREET</td> </tr> <tr> <td>City:</td> <td>BOSTON</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02109-3605</td> </tr> </table>		Name:	FMR, LLC	Street Address:	82 DEVONSHIRE STREET	City:	BOSTON	State/Country:	MASSACHUSETTS	Postal Code:	02109-3605
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number:	(202)842-7899										
Phone:	212-479-6000										
Email:	aglinska@cooley.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	COOLEY LLP										
Address Line 1:	1299 PENNSYLVANIA AVENUE, NW										
Address Line 2:	SUITE 700										
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20004										
ATTORNEY DOCKET NUMBER:	FIDE-002/00US 270718-2002										
NAME OF SUBMITTER:	WALTER G. HANCHUK										
Signature:	/Walter G. Hanchuk/										

Date:

01/08/2014

Total Attachments: 3

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ASSIGNMENT

WHEREAS:

Philip K. Thayer
39 Oak Ave
Belmont, MA 02478
Citizenship: US

Miles F. Betro
7 Partridge Lane
Walpole, MA 02081
Citizenship: US

Lisa J. Emsbo-Mattingly
19 South Rindge Ave
Lexington, MA 02420
Citizenship: US

(hereafter referred to as **ASSIGNOR(S)**),

have made a discovery or invention(s) entitled:

**"SEASONAL PORTFOLIO CONSTRUCTION PLATFORM APPARATUSES,
METHODS AND SYSTEMS"**

- ☒ for which application for Letters Patent is attached hereto,
- ☐ for which application for Letters Patent of the United States has been filed on _____, under Serial No. _____,

WHEREAS

FMR, LLC
82 Devonshire Street
Boston, MA 02109-3605

(hereinafter referred to as "**ASSIGNEE**") is desirous of acquiring the entire interest in, to and

under said invention(s) and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all other countries

NOW THEREFORE, TO ALL IT MAY CONCERN:

Be it known that for valuable consideration from ASSIGNEE to ASSIGNOR(S) the receipt of which is hereby acknowledged I, said ASSIGNOR(S) hereby sell, assign and transfer to ASSIGNEE and its successors, other legal representatives and assigns the entire right, title and interest to said discovery, invention and/or industrial design in the United States and its territorial possessions and in all other countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all other countries to be obtained for said invention by said application or any continuation, continuation-in-part, division, renewal, substitute, reissue or reexamination thereof or any legal equivalent thereof in any other country for the full term or terms for which the same may be granted.

I, said ASSIGNOR(S), hereby covenant that I (we) have the full right to convey the entire interest herein assigned and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

I, said ASSIGNOR(S), hereby agree to execute all papers necessary in connection with the application and any continuation, continuation in part, divisional, reissue, reexamination or corresponding applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient;

I, said ASSIGNOR(S), hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the empowered officials of all other governments to issue all said Letters Patent for said discovery or invention to the ASSIGNEE as assignee of the entire right, title and interest into and under the same, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns;

I, said ASSIGNOR(S), hereby authorize the ASSIGNEE to apply for and obtain the recordation of this Assignment. I, said ASSIGNOR(S), also hereby agree that I (we) shall, without further consideration, promptly and duly cause to be performed such lawful acts and execution of any other documents as the ASSIGNEE may reasonably request in order for the ASSIGNEE to obtain the full benefit of this Assignment and to permit the Assignment to be duly recorded in each office, bureau and tribunal in the appropriate jurisdiction as the registered owner or proprietor of each of the rights hereby assigned. Such instruments and documents shall include, without limitation, affidavits, including affidavits of use, and other documents for filing in such jurisdictions as the ASSIGNEE may from time to time reasonably request.

I, said ASSIGNOR(S), hereby declare that: The above-identified application was made or authorized to be made by me (us); I (we) believe that I (we) am (are) the original inventor(s) or original joint inventor(s) of a claimed invention in the application for which Letters Patent or similar legal protection is sought; I (we) have reviewed and understand the

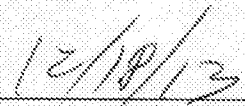
contents of the above-identified application, including the claims; I (we) hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C 1001 by fine or imprisonment of not more than five (5) years, or both; and I (we) acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me (us) to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

AND it is further covenanted and agreed that I, said ASSIGNOR(S), will, at any time upon request by the ASSIGNEE, its successors, legal representatives or assigns, communicate to said ASSIGNEE, its successors, assigns or other legal representatives, any facts relating to said invention(s) and the history thereof known to said ASSIGNOR(S) and testify as to same in any interference or any other legal proceeding when requested to do so, sign any and all lawful papers, execute any and all necessary assignment papers to cause any Letters Patent to be issued to ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain, perfect title in and enforce proper protection for said inventions in the United States and in any and all other countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

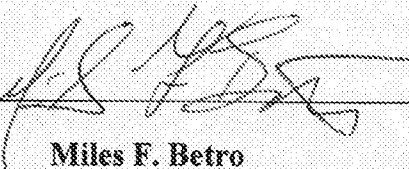
SIGNED:

1. 

Philip K. Thayer



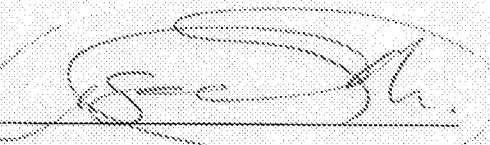
Date

2. 

Miles F. Betro



Date

3. 

Lisa J. Emsbo-Mattingly



Date