

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JACOB LOVELESS | 01/28/2008 |
| RECEIVING PARTY DATA | |
| Name: | CFPH, LLC |
| Street Address: | 110 East 59th Street |
| City: | New York |
| State/Country: | NEW YORK |
| Postal Code: | 10022 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13330030 |
| CORRESPONDENCE DATA | |
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| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Correspondent Name: | INNOVATION DIVISION |
| Address Line 1: | 110 East 59th Street, 6th Floor |
| Address Line 2: | Cantor Fitzgerald, L.P., Innovation Div |
| Address Line 4: | New York, NEW YORK 10022 |
| ATTORNEY DOCKET NUMBER: | 07-2103-C1 |
| NAME OF SUBMITTER: | Laura Alto |
| Total Attachments: 2 source=07-2103-C1_111219_Assignment_Executed_Parent#page1.tif source=07-2103-C1_111219_Assignment_Executed_Parent#page2.tif | |

CH \$40.00 13330030

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, CFPH, LLC (hereinafter referred to as "Assignee"), a Delaware limited liability company, with an address of 110 E. 59th Street, New York, New York 10022, desires to acquire my entire right, title and interest in and to the invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby confirm having assigned to Assignee, as of the earliest filing date or priority date of any patent application or applications drawn to the invention, all right, title, and interest in and to the invention, and in and to any and all such patent applications and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof, by virtue of the Assignee being entitled thereto (a) as employer of the inventor, or (b) pursuant to an agreement between (1) Assignee and the undersigned inventor or (2) Assignee and the undersigned inventor's employer, which was executed prior to the filing of said application therefor, and I further assign to Assignee all right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee.

I also confirm having assigned to Assignee as of the earliest filing date or priority date of any patent application or applications drawn to the invention, and I further assign to Assignee, all right, title and interest in and to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

IN TESTIMONY WHEREOF, we have executed this document on the date indicated below.

ATTORNEY DOCKET NO.
07-2103

ASSIGNMENT
12/020,263

Title of Invention:

ALGORITHMIC TRADING

Signature of Inventor:

Inventor's Name:

Jacob Loveless

Residence (City, County, State):

Boca Raton, Palm Beach County, FL

Date Assignment Executed:

1/28/08

STATE OF NY)
)
COUNTY OF NY) ss.:

On this 28 day of Jan., 2007, before me came Jacob Loveless, to me known and known to me to be the individual described in, and who executed the foregoing instrument, and he/she has acknowledged to me that he/she has executed the same.


Notary Public

ANTONIO PAPAGEORGIOU
NOTARY PUBLIC-STATE OF NEW YORK
No. 02PA6174304
Qualified in Bronx County
My Commission Expires September 17, 2011

ALGORITHMIC TRADING

ATTORNEY DOCKET NO. 07-2103

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ASSIGNMENT
12/020,263

RECORDED: 12/19/2011

PATENT
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