

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4770444

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|---|---------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| FINNOVATION S.A. | 12/07/2017 |
| RECEIVING PARTY DATA | |
| Name: | FINNOVATION SOFTWARE GMBH |
| Street Address: | MERGENTHALERALLEE 61 |
| City: | ESCHBORN |
| State/Country: | GERMANY |
| Postal Code: | 65760 |
| PROPERTY NUMBERS Total: 5 | |
| Property Type | Number |
| Patent Number: | 7761364 |
| Patent Number: | 7774263 |
| Patent Number: | 8326736 |
| Patent Number: | 8229833 |
| Patent Number: | 8527391 |
| CORRESPONDENCE DATA | |
| Fax Number: | (212)588-0500 |
| <i>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.</i> | |
| Phone: | 212 588 0800 |
| Email: | Docket@haugpartners.com |
| Correspondent Name: | HAUG PARTNERS LLP |
| Address Line 1: | 745 FIFTH AVENUE |
| Address Line 2: | 10TH FLOOR |
| Address Line 4: | NEW YORK, NEW YORK 10151 |
| ATTORNEY DOCKET NUMBER: | 245023-2003/2003.1/2003.2 |
| NAME OF SUBMITTER: | JOSEPH V. SAPHIA |
| SIGNATURE: | /Joseph V. Saphia/ |
| DATE SIGNED: | 01/10/2018 |
| Total Attachments: 2 | |

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DEED OF ASSIGNMENT

The undersigning company

FINNOVATION S.A.,
42 avenue J.F. Kennedy,
L-1855 Luxembourg,
LUXEMBOURG

has irrevocably assigned, transferred and conveyed to

Finnovation Software GmbH,
Mergenthalerallee 61,
65760 Eschborn,
GERMANY

and Finnovation Software GmbH has accepted, all rights, title and interest in the below listed patents and all continuations, continuations-in-part, reissues, divisions, extensions and re-examinations thereof, and all rights of any kind whatsoever accruing under any of the foregoing provided by applicable law of any jurisdiction, by international conventions and treaties and otherwise throughout the world, any and all claims and causes of action with respect to any of the foregoing, whether accruing before, on or after the date hereof.

| Country | Internal Number | Name | Title (Inventors) | Application Number / Patent Number | Max. Term |
|---------|-----------------|--|--|--|-------------------|
| US | 245001-2003 | Midpoint Matching System | ISE Stock; Midpoint price matching using maximization algorithm. (Wunsch, Books, and Henderson) | US 11/222141 U.S. Patent Nr. 7,761,364 | 15. August 2027 |
| US | 245001-2003.1 | Linked Displayed Market And Midpoint Matching System | Linked displayed market and midpoint match market (Wunsch and Books) | US 11/731909 U.S. Patent Nr. 7,774,263 | 16. Juli 2026 |
| US | 245001-2003.2 | Linked Displayed Market And Midpoint Matching System | Linked displayed market and midpoint match market (Wunsch and Books) | US 12/826,132 U.S. Patent Nr. 8,326,736 | 14. Dezember 2025 |
| US | 245001-2004 | Simplified Quote Sharing Calculation | Method to allocate revenue received for dissemination of market data (Ciabattini) | US 11/904670 U.S. Patent Nr. 8,229,833 | 24. Mai 2031 |


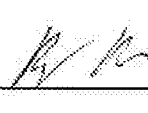
| Country | Internal Number | Name | Title (Inventors) | Application Number / Patent Number | Max. Term |
|---------|-----------------|--|---|--|---------------|
| US | 245001-2006 | Quote Inactivation System and Method for an Automated Exchange for Trading Derivative Securities | Quote inactivation (Siverson and Maynard) | US 12/497,095 U.S. Patent Nr. 8,527,391 | 17. Juni 2030 |

FINNOVATION S.A. hereby authorizes and requests the Commissioner for Patents in the U.S. Patent and Trademark Office to record and register this Assignment.

IN WITNESS WHEREOF, FINNOVATION S.A. has executed and delivered this deed of assignment:

Place, Date Eschborn, 6.12.2017 Place, Date Eschborn, 7.12.2017

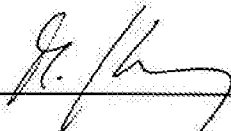
Name, Position Marco Steeg Name, Position Dr. Randalof Roth

Signature  Signature 

AGREED TO AND ACCEPTED (Finnovation Software GmbH):

Place, Date Eschborn, 6.12.2017 Place, Date Eschborn, 7.12.2017

Name, Position Marco Steeg Name, Position Dr. Randalof Roth

Signature  Signature 