

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM769277

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Trading Technologies International, Inc.		11/14/2022	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	JPMorgan Chase Bank, N.A.		
Street Address:	10 South Dearborn, Floor 12, Suite IL1-1145		
City:	Chicago		
State/Country:	ILLINOIS		
Postal Code:	60603		
Entity Type:	National Banking Association: UNITED STATES		
PROPERTY NUMBERS Total: 19			
Property Type	Number	Word Mark	
Registration Number:	5917987	TRADING TECHNOLOGIES	
Registration Number:	5750948	T	
Registration Number:	4886625	TT	
Registration Number:	4970668	T TRADING TECHNOLOGIES	
Registration Number:	4970667	T TRADING TECHNOLOGIES	
Registration Number:	5291731	NEURENSIC	
Registration Number:	5096393	TT CAMPUSCONNECT	
Registration Number:	4960721	T	
Registration Number:	5291312	T TRADING TECHNOLOGIES	
Registration Number:	4960720	T TRADING TECHNOLOGIES	
Registration Number:	4369048	ADL	
Registration Number:	3420343	X_STUDY	
Registration Number:	3494005	TT CVD	
Registration Number:	3203413	NAVIGATOR	
Registration Number:	3034933	AUTOSPREADER	
Registration Number:	3044411	MD TRADER	
Registration Number:	3688638	X_RISK	
Registration Number:	2783691	TRADING TECHNOLOGIES	
Registration Number:	2232001	X_TRADER	
		TRADEMARK	

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CORRESPONDENCE DATA**Fax Number:** 6175236850***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.*****Phone:** 617-523-2700**Email:** susan.dinicola@hkllaw.com,kyle.vits@hkllaw.com**Correspondent Name:** Holland & Knight LLP**Address Line 1:** 10 St. James Avenue**Address Line 4:** Boston, MASSACHUSETTS 02116**NAME OF SUBMITTER:** Susan C. DiNicola**SIGNATURE:** /Susan C. DiNicola/**DATE SIGNED:** 11/21/2022**Total Attachments: 34**

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TRADEMARK**REEL: 007927 FRAME: 0664**

INTELLECTUAL PROPERTY SECURITY AGREEMENT

Intellectual Property Security Agreement, dated November 14, 2022 (this “**IP Security Agreement**”), by TRADING TECHNOLOGIES, INC., a Delaware corporation (the “**Grantor**”), in favor of JPMORGAN CHASE BANK, N.A., in its capacity as administrative agent (the “Administrative Agent”) for the Secured Parties to the Credit Agreement (as defined below).

WITNESSETH:

WHEREAS, the Grantor is party to the Credit Agreement, dated November 14, 2022 (as it may be amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Credit Agreement**”), by and among the Grantor, the other Loan Parties from time to time party thereto, and Administrative Agent, pursuant to which the Grantor is required to execute and deliver this IP Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Administrative Agent, for the benefit of the Secured Parties, to enter into the Credit Agreement, the Grantor hereby agrees with the Administrative Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Credit Agreement and used herein have the meaning given to them in the Credit Agreement.

SECTION 2. Grant of Security Interest in Intellectual Property Collateral. The Grantor hereby pledges and grants to the Administrative Agent for the benefit of the Secured Parties a lien on and security interest in and to all of its right, title and interest in, to and under all the Trademarks and Patents, each as defined in the Security Agreement (the “Intellectual Property”), of the Grantor listed on Schedule I attached hereto, including all goodwill associated with such Intellectual Property.

SECTION 3. The Credit Agreement. The security interest granted pursuant to this IP Security Agreement is granted in conjunction with the security interest granted to the Administrative Agent pursuant to the Credit Agreement and the Security Agreement, and the Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the security interest in the Intellectual Property made and granted hereby are more fully set forth in the Credit Agreement and the Security Agreement, the terms of which are incorporated herein by reference. In the event that any provision of this IP Security Agreement is deemed to conflict with the Credit Agreement or Security Agreement, the provisions of the Credit Agreement and Security Agreement shall control.

SECTION 4. Termination. Upon the termination of the Credit Agreement in accordance with Section 10.08 thereof, the Administrative Agent shall, at the expense of the Grantor, execute, acknowledge, and deliver to the Grantor an instrument in writing in recordable form releasing the lien on and security interest in the Intellectual Property under this IP Security Agreement.

SECTION 5. Counterparts. This IP Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this IP Security Agreement by signing and delivering one or more counterparts. Delivery by facsimile or other electronic communication of an executed counterpart of a signature

page to this IP Security Agreement shall be effective as delivery of an original executed counterpart of this IP Security Agreement.

SECTION 6. Governing Law. The terms of Sections 9.09 and 9.10 of the Credit Agreement with respect to governing law, submission of jurisdiction, venue and waiver of jury trial are incorporated herein by reference, *mutatis mutandis*, and the parties hereto agree to such terms.

[Signature pages follow]

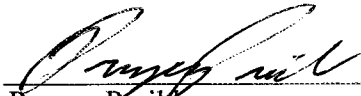
**TRADING TECHNOLOGIES
INTERNATIONAL, INC.,**
as Grantor

By: 

Name: Keith Todd

Title: Chief Executive Officer

JPMORGAN CHASE BANK, N.A.,
as Administrative Agent

By: 
Name: Prayag Parikh
Title: Authorized Officer

**Schedule I
Intellectual Property**

PATENTS

Filed Date	Application Number	Patent No.	Grant Date	Owner
6/14/2001	09/880,078	7,243,083	7/10/2007	Trading Technologies International, Inc.
4/19/2002	10/125,894	7,389,268	6/17/2008	Trading Technologies International, Inc.
6/26/2002	10/183,845	7,552,077	6/23/2009	Trading Technologies International, Inc.
6/26/2002	10/184,498	7,685,049	3/23/2010	Trading Technologies International, Inc.
9/12/2002	10/242,062	7,606,748	10/20/2009	Trading Technologies International, Inc.
9/25/2002	10/254,560	7,366,691	4/29/2008	Trading Technologies International, Inc.
9/30/2002	10/260,643	7,813,994	10/12/2010	Trading Technologies International, Inc.
9/30/2002	10/260,644	7,610,237	10/27/2009	Trading Technologies International, Inc.
10/2/2002	10/263,102	7,752,115	7/6/2010	Trading Technologies International, Inc.
10/31/2002	10/284,882	7,426,490	9/16/2008	Trading Technologies International, Inc.
11/13/2002	10/293,585	7,418,422	8/26/2008	Trading Technologies International, Inc.
11/26/2002	10/304,248	7,577,602	8/18/2009	Trading Technologies International, Inc.
11/26/2002	10/304,275	8,041,622	10/18/2011	Trading Technologies International, Inc.
11/26/2002	10/305,308	8,041,623	10/18/2011	Trading Technologies International, Inc.
12/27/2002	10/330,464	7,792,734	9/7/2010	Trading Technologies International, Inc.
1/10/2003	10/339,947	7,603,303	10/13/2009	Trading Technologies International, Inc.
1/31/2003	10/355,471	7,752,117	7/6/2010	Trading Technologies International, Inc.
1/31/2003	10/356,277	7,844,536	11/30/2010	Trading Technologies International, Inc.
2/28/2003	10/376,437	7,558,754	7/7/2009	Trading Technologies International, Inc.

2/28/2003	10/376,932	10817937	10/27/2020	Trading Technologies International, Inc.
3/31/2003	10/403,374	7,765,134	7/27/2010	Trading Technologies International, Inc.
3/31/2003	10/403,881	8,738,497	5/27/2014	Trading Technologies International, Inc.
5/29/2003	10/447,382	7,707,098	4/27/2010	Trading Technologies International, Inc.
5/30/2003	10/452,567	7,809,628	10/5/2010	Trading Technologies International, Inc.
12/14/2004	10/517,960	7,590,587	9/15/2009	Trading Technologies International, Inc.
6/30/2003	10/609,869	7,512,557	3/31/2009	Trading Technologies International, Inc.
6/30/2003	10/609,965	7,587,357	9/8/2009	Trading Technologies International, Inc.
7/28/2003	10/628,631	7,756,782	7/13/2010	Trading Technologies International, Inc.
8/5/2003	10/634,415	7,716,112	5/11/2010	Trading Technologies International, Inc.
9/30/2003	10/675,449	7,624,063	11/24/2009	Trading Technologies International, Inc.
10/7/2003	10/680,455	7,752,118	7/6/2010	Trading Technologies International, Inc.
11/6/2003	10/702,288	7,539,640	5/26/2009	Trading Technologies International, Inc.
12/4/2003	10/727,466	7,113,924	9/26/2006	Trading Technologies International, Inc.
12/5/2003	10/729,123	7,908,570	3/15/2011	Trading Technologies International, Inc.
12/12/2003	10/734,862	7,734,528	6/8/2010	Trading Technologies International, Inc.
12/30/2003	10/749,007	7,536,328	5/19/2009	Trading Technologies International, Inc.
3/19/2004	10/804,631	7,813,995	10/12/2010	Trading Technologies International, Inc.
3/31/2004	10/814,986	7,218,325	5/15/2007	Trading Technologies International, Inc.
9/27/2004	10/950,901	8,688,562	4/1/2014	Trading Technologies International, Inc.
9/27/2004	10/950,916	7,739,164	6/15/2010	Trading Technologies International, Inc.
9/30/2004	10/954,681	7,571,134	8/4/2009	Trading Technologies International, Inc.
9/30/2004	10/954,682	7,523,064	4/21/2009	Trading Technologies International, Inc.

9/30/2004	10/955,289	7,574,391	8/11/2009	Trading Technologies International, Inc.
12/28/2004	11/023,685	7,783,558	8/24/2010	Trading Technologies International, Inc.
12/30/2004	11/027,314	7,848,991	12/7/2010	Trading Technologies International, Inc.
3/31/2005	11/095,235	7,634,437	12/15/2009	Trading Technologies International, Inc.
3/31/2005	11/095,980	7,596,528	9/29/2009	Trading Technologies International, Inc.
6/6/2005	11/146,167	7,711,630	5/4/2010	Trading Technologies International, Inc.
6/30/2005	11/170,938	7,577,600	8/18/2009	Trading Technologies International, Inc.
7/11/2005	11/178,523	7,742,974	6/22/2010	Trading Technologies International, Inc.
9/30/2005	11/241,168	7,672,896	3/2/2010	Trading Technologies International, Inc.
9/30/2005	11/241,169	8,583,534	11/12/2013	Trading Technologies International, Inc.
9/30/2005	11/241,716	7,747,510	6/29/2010	Trading Technologies International, Inc.
12/29/2005	11/321,228	7,711,631	5/4/2010	Trading Technologies International, Inc.
3/8/2006	11/370,693	7,565,318	7/21/2009	Trading Technologies International, Inc.
4/21/2006	11/409,346	7,861,185	12/28/2010	Trading Technologies International, Inc.
5/2/2006	11/415,177	7,707,086	4/27/2010	Trading Technologies International, Inc.
5/1/2006	11/415,343	7,848,993	12/7/2010	Trading Technologies International, Inc.
5/1/2006	11/415,351	7,742,976	6/22/2010	Trading Technologies International, Inc.
5/1/2006	11/415,356	7,599,868	10/6/2009	Trading Technologies International, Inc.
5/1/2006	11/415,380	7,805,356	9/28/2010	Trading Technologies International, Inc.
5/1/2006	11/415,405	7,933,830	4/26/2011	Trading Technologies International, Inc.
5/1/2006	11/415,407	7,613,651	11/3/2009	Trading Technologies International, Inc.
5/1/2006	11/415,410	7,756,775	7/13/2010	Trading Technologies International, Inc.
5/1/2006	11/415,439	7,653,589	1/26/2010	Trading Technologies International, Inc.

5/1/2006	11/415,450	7,783,559	8/24/2010	Trading Technologies International, Inc.
5/1/2006	11/415,452	7,548,882	6/16/2009	Trading Technologies International, Inc.
5/2/2006	11/415,845	7,584,141	9/1/2009	Trading Technologies International, Inc.
5/2/2006	11/415,846	7,620,579	11/17/2009	Trading Technologies International, Inc.
5/2/2006	11/415,853	7,483,850	1/27/2009	Trading Technologies International, Inc.
5/2/2006	11/415,863	7,555,457	6/30/2009	Trading Technologies International, Inc.
5/2/2006	11/415,864	7,565,319	7/21/2009	Trading Technologies International, Inc.
5/2/2006	11/415,873	7,483,855	1/27/2009	Trading Technologies International, Inc.
5/2/2006	11/415,887	8,301,541	10/30/2012	Trading Technologies International, Inc.
5/2/2006	11/415,888	7,702,568	4/20/2010	Trading Technologies International, Inc.
5/2/2006	11/415,890	7,882,012	2/1/2011	Trading Technologies International, Inc.
5/2/2006	11/415,948	7,813,997	10/12/2010	Trading Technologies International, Inc.
5/2/2006	11/415,949	7,848,994	12/7/2010	Trading Technologies International, Inc.
5/2/2006	11/415,958	7,580,881	8/25/2009	Trading Technologies International, Inc.
5/2/2006	11/415,959	7,734,532	6/8/2010	Trading Technologies International, Inc.
5/2/2006	11/415,963	7,640,206	12/29/2009	Trading Technologies International, Inc.
5/2/2006	11/415,966	7,577,607	8/18/2009	Trading Technologies International, Inc.
5/2/2006	11/415,977	7,348,981	3/25/2008	Trading Technologies International, Inc.
5/2/2006	11/415,979	8,036,977	10/11/2011	Trading Technologies International, Inc.
5/2/2006	11/416,399	7,702,569	4/20/2010	Trading Technologies International, Inc.
5/2/2006	11/416,405	7,742,962	6/22/2010	Trading Technologies International, Inc.
5/2/2006	11/416,406	7,536,344	5/19/2009	Trading Technologies International, Inc.
5/2/2006	11/416,448	7,426,491	9/16/2008	Trading Technologies International, Inc.

TRADEMARK SECURITY AGREEMENT – Schedule I

JPM/TRADING TECHNOLOGIES

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5/2/2006	11/416,459			Trading Technologies International, Inc.
5/2/2006	11/416,471	7,644,030	1/5/2010	Trading Technologies International, Inc.
5/2/2006	11/416,473	7,908,213	3/15/2011	Trading Technologies International, Inc.
5/3/2006	11/417,483	7,403,921	7/22/2008	Trading Technologies International, Inc.
5/3/2006	11/417,532	7,774,249	8/10/2010	Trading Technologies International, Inc.
5/3/2006	11/417,540	7,620,587	11/17/2009	Trading Technologies International, Inc.
5/3/2006	11/417,680	7,593,887	9/22/2009	Trading Technologies International, Inc.
5/3/2006	11/417,873	7,640,207	12/29/2009	Trading Technologies International, Inc.
5/3/2006	11/417,886	7,512,561	3/31/2009	Trading Technologies International, Inc.
5/3/2006	11/418,475	7,627,519	12/1/2009	Trading Technologies International, Inc.
10/20/2006	11/551,567	7,747,513	6/29/2010	Trading Technologies International, Inc.
12/21/2006	11/614,411	8,290,850	10/16/2012	Trading Technologies International, Inc.
12/29/2006	11/617,839	10,026,122	7/17/2018	Trading Technologies International, Inc.
3/21/2007	11/689,178	7,788,167	8/31/2010	Trading Technologies International, Inc.
3/26/2007	11/691,231	8,036,965	10/11/2011	Trading Technologies International, Inc.
3/28/2007	11/692,284	7,729,978	6/1/2010	Trading Technologies International, Inc.
3/29/2007	11/693,219	7,580,883	8/25/2009	Trading Technologies International, Inc.
3/29/2007	11/693,312	7,809,841	10/5/2010	Trading Technologies International, Inc.
6/27/2007	11/769,048	8,793,177	7/29/2014	Trading Technologies International, Inc.
8/17/2007	11/840,738	7,949,954	5/24/2011	Trading Technologies International, Inc.
10/30/2007	11/928,458	8,249,976	8/21/2012	Trading Technologies International, Inc.
2/6/2008	12/027,073	7,629,975	12/8/2009	Trading Technologies International, Inc.
5/28/2008	12/128,382	8,249,977	8/21/2012	Trading Technologies International, Inc.

7/28/2008	12/180,942	7,844,726	11/30/2010	Trading Technologies International, Inc.
12/1/2008	12/325,427	7,917,426	3/29/2011	Trading Technologies International, Inc.
12/17/2008	12/337,401	7,856,392	12/21/2010	Trading Technologies International, Inc.
12/17/2008	12/337,415	7,856,393	12/21/2010	Trading Technologies International, Inc.
12/18/2008	12/338,824	8,170,950	5/1/2012	Trading Technologies International, Inc.
1/6/2009	12/349,015	7,774,267	8/10/2010	Trading Technologies International, Inc.
3/24/2009	12/410,210	8,566,219	10/22/2013	Trading Technologies International, Inc.
3/24/2009	12/410,232	8,401,952	3/19/2013	Trading Technologies International, Inc.
4/8/2009	12/420,710	8,214,280	7/3/2012	Trading Technologies International, Inc.
5/12/2009	12/464,388	7,870,063	1/11/2011	Trading Technologies International, Inc.
5/19/2009	12/468,610	8,744,945	6/3/2014	Trading Technologies International, Inc.
5/22/2009	12/471,083	7,801,806	9/21/2010	Trading Technologies International, Inc.
5/29/2009	12/474,864	8,332,304	12/11/2012	Trading Technologies International, Inc.
6/2/2009	12/476,611	8,090,637	1/3/2012	Trading Technologies International, Inc.
6/5/2009	12/479,231	7,844,531	11/30/2010	Trading Technologies International, Inc.
6/17/2009	12/486,577	7,853,504	12/14/2010	Trading Technologies International, Inc.
6/23/2009	12/490,049	7,797,228	9/14/2010	Trading Technologies International, Inc.
6/26/2009	12/492,536	9,727,913	8/8/2017	Trading Technologies International, Inc.
7/14/2009	12/502,408	7,844,532	11/30/2010	Trading Technologies International, Inc.
7/30/2009	12/512,182	8,150,760	4/3/2012	Trading Technologies International, Inc.
7/31/2009	12/533,691	8,150,761	4/3/2012	Trading Technologies International, Inc.
7/31/2009	12/533,818	8,145,558	3/27/2012	Trading Technologies International, Inc.
7/31/2009	12/533,853	8,229,837	7/24/2012	Trading Technologies International, Inc.

8/12/2009	12/540,059	8,108,291	1/31/2012	Trading Technologies International, Inc.
8/18/2009	12/543,315	8,666,872	3/4/2014	Trading Technologies International, Inc.
8/24/2009	12/546,451	8,027,908	9/27/2011	Trading Technologies International, Inc.
8/27/2009	12/549,067	7,831,505	11/9/2010	Trading Technologies International, Inc.
8/27/2009	12/549,081	8,032,437	10/4/2011	Trading Technologies International, Inc.
9/14/2009	12/559,480	7,991,667	8/2/2011	Trading Technologies International, Inc.
9/24/2009	12/566,117	7,930,240	4/19/2011	Trading Technologies International, Inc.
9/30/2009	12/570,816	8,589,278	11/19/2013	Trading Technologies International, Inc.
10/14/2009	12/579,197	7,831,506	11/9/2010	Trading Technologies International, Inc.
10/16/2009	12/580,905	8,015,100	9/6/2011	Trading Technologies International, Inc.
10/20/2009	12/582,489	9,626,722	4/18/2017	Trading Technologies International, Inc.
10/23/2009	12/604,979	7,965,292	6/21/2011	Trading Technologies International, Inc.
10/26/2009	12/605,968	10853877	12/1/2020	Trading Technologies International, Inc.
11/18/2009	12/621,264	8,065,221	11/22/2011	Trading Technologies International, Inc.
12/14/2009	12/637,536	8,386,368	2/26/2013	Trading Technologies International, Inc.
12/15/2009	12/637,971	8,380,575	2/19/2013	Trading Technologies International, Inc.
12/16/2009	12/639,695	8,015,102	9/6/2011	Trading Technologies International, Inc.
12/18/2009	12/642,493	8,423,373	4/16/2013	Trading Technologies International, Inc.
2/9/2010	12/702,780	11,475,518	10/18/2022	Trading Technologies International, Inc.
3/3/2010	12/716,700	8,744,953	6/3/2014	Trading Technologies International, Inc.
3/5/2010	12/718,946	8,533,102	9/10/2013	Trading Technologies International, Inc.
3/5/2010	12/718,947	8,452,690	5/28/2013	Trading Technologies International, Inc.
4/13/2010	12/759,579	8,032,445	10/4/2011	Trading Technologies International, Inc.

4/21/2010	12/764,686	8,065,222	11/22/2011	Trading Technologies International, Inc.
4/22/2010	12/765,801	8,630,939	1/14/2014	Trading Technologies International, Inc.
4/27/2010	12/768,670	8,046,282	10/25/2011	Trading Technologies International, Inc.
5/6/2010	12/774,930	8,185,468	5/22/2012	Trading Technologies International, Inc.
5/13/2010	12/779,181	7,930,233	4/19/2011	Trading Technologies International, Inc.
5/17/2010	12/781,491	7,945,508	5/17/2011	Trading Technologies International, Inc.
5/19/2010	12/783,349	8,417,603	4/9/2013	Trading Technologies International, Inc.
5/27/2010	12/789,016	8,271,903	9/18/2012	Trading Technologies International, Inc.
6/24/2010	12/822,979	8,249,980	8/21/2012	Trading Technologies International, Inc.
6/29/2010	12/825,677	8,655,766	2/18/2014	Trading Technologies International, Inc.
6/30/2010	12/827,881	8,660,934	2/25/2014	Trading Technologies International, Inc.
6/30/2010	12/828,066	9,836,788	12/5/2017	Trading Technologies International, Inc.
7/6/2010	12/830,790	7,882,018	2/1/2011	Trading Technologies International, Inc.
7/14/2010	12/836,485			Trading Technologies International, Inc.
7/14/2010	12/836,490	8,781,946	7/15/2014	Trading Technologies International, Inc.
7/15/2010	12/836,766	8,046,283	10/25/2011	Trading Technologies International, Inc.
7/19/2010	12/838,631	7,849,001	12/7/2010	Trading Technologies International, Inc.
7/26/2010	12/843,618	8,510,206	8/13/2013	Trading Technologies International, Inc.
7/27/2010	12/844,645	8,290,851	10/16/2012	Trading Technologies International, Inc.
8/2/2010	12/848,685	8,392,315	3/5/2013	Trading Technologies International, Inc.
8/3/2010	12/849,251	8,073,958	12/6/2011	Trading Technologies International, Inc.
8/10/2010	12/853,380	7,925,574	4/12/2011	Trading Technologies International, Inc.
8/30/2010	12/871,830	8,112,351	2/7/2012	Trading Technologies International, Inc.

9/29/2010	12/893,324	7,904,379	3/8/2011	Trading Technologies International, Inc.
9/30/2010	12/895,419	10,263,888	4/16/2019	Trading Technologies International, Inc.
10/1/2010	12/895,962	7,904,380	3/8/2011	Trading Technologies International, Inc.
10/15/2010	12/905,709	10,096,066	10/9/2018	Trading Technologies International, Inc.
10/15/2010	12/905,726	9,652,803	5/16/2017	Trading Technologies International, Inc.
10/19/2010	12/907,087	8,195,554	6/5/2012	Trading Technologies International, Inc.
10/22/2010	12/910,027	8,131,868	3/6/2012	Trading Technologies International, Inc.
10/22/2010	12/910,557	8,694,411	4/8/2014	Trading Technologies International, Inc.
10/22/2010	12/910,617	8,688,565	4/1/2014	Trading Technologies International, Inc.
10/26/2010	12/911,968	7,991,668	8/2/2011	Trading Technologies International, Inc.
10/26/2010	12/912,719	8,010,437	8/30/2011	Trading Technologies International, Inc.
10/28/2010	12/914,231	7,970,696	6/28/2011	Trading Technologies International, Inc.
11/1/2010	12/917,310	8,744,954	6/3/2014	Trading Technologies International, Inc.
11/2/2010	12/938,190	8,682,778	3/25/2014	Trading Technologies International, Inc.
11/8/2010	12/941,992	8,099,355	1/17/2012	Trading Technologies International, Inc.
11/12/2010	12/945,654	8,380,606	2/19/2013	Trading Technologies International, Inc.
12/15/2010	12/969,575	8,126,801	2/28/2012	Trading Technologies International, Inc.
12/22/2010	12/977,020	7,970,697	6/28/2011	Trading Technologies International, Inc.
1/24/2011	13/012,474	11049181	6/29/2021	Trading Technologies International, Inc.
1/25/2011	13/013,792	8,161,414	4/17/2012	Trading Technologies International, Inc.
1/25/2011	13/013,798	8,001,038	8/16/2011	Trading Technologies International, Inc.
1/26/2011	13/014,263	8,019,676	9/13/2011	Trading Technologies International, Inc.
1/26/2011	13/014,547	8,566,220	10/22/2013	Trading Technologies International, Inc.

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2/25/2011	13/034,904	8,732,064	5/20/2014	Trading Technologies International, Inc.
3/2/2011	13/039,135	8,135,641	3/13/2012	Trading Technologies International, Inc.
3/9/2011	13/044,117	8,275,696	9/25/2012	Trading Technologies International, Inc.
3/11/2011	13/046,545	8,145,553	3/27/2012	Trading Technologies International, Inc.
3/31/2011	13/077,951	9,934,534	4/3/2018	Trading Technologies International, Inc.
4/5/2011	13/080,249	8,433,642	4/30/2013	Trading Technologies International, Inc.
4/8/2011	13/083,250	11055774	7/6/2021	Trading Technologies International, Inc.
4/15/2011	13/088,022	8,930,258	1/6/2015	Trading Technologies International, Inc.
4/19/2011	13/090,067	8,601,391	12/3/2013	Trading Technologies International, Inc.
5/11/2011	13/105,476	8,635,145	1/21/2014	Trading Technologies International, Inc.
5/12/2011	13/106,770	8,044,959	10/25/2011	Trading Technologies International, Inc.
5/17/2011	13/109,633	8,301,546	10/30/2012	Trading Technologies International, Inc.
6/13/2011	13/158,602	8,438,087	5/7/2013	Trading Technologies International, Inc.
6/15/2011	13/160,866	8,195,548	6/5/2012	Trading Technologies International, Inc.
6/15/2011	13/161,308	8,255,313	8/28/2012	Trading Technologies International, Inc.
7/13/2011	13/182,231	8,301,549	10/30/2012	Trading Technologies International, Inc.
7/19/2011	13/185,709	8,165,957	4/24/2012	Trading Technologies International, Inc.
7/24/2011	13/189,513	8,234,202	7/31/2012	Trading Technologies International, Inc.
7/26/2011	13/190,954	8,321,331	11/27/2012	Trading Technologies International, Inc.
8/3/2011	13/197,430	8,175,960	5/8/2012	Trading Technologies International, Inc.
8/25/2011	13/218,162	8,620,794	12/31/2013	Trading Technologies International, Inc.
8/26/2011	13/218,533	10,497,056	12/3/2019	Trading Technologies International, Inc.
8/29/2011	13/219,888	8,280,801	10/2/2012	Trading Technologies International, Inc.

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9/10/2011	13/229,676	9,218,625	12/22/2015	Trading Technologies International, Inc.
9/12/2011	13/230,693	8,234,198	7/31/2012	Trading Technologies International, Inc.
9/16/2011	13/235,180	8,219,485	7/10/2012	Trading Technologies International, Inc.
9/20/2011	13/237,440	8,269,774	9/18/2012	Trading Technologies International, Inc.
9/22/2011	13/239,996	8,204,811	6/19/2012	Trading Technologies International, Inc.
9/26/2011	13/245,406			Trading Technologies International, Inc.
10/7/2011	13/269,061	8,533,104	9/10/2013	Trading Technologies International, Inc.
10/13/2011	13/272,617	8,229,842	7/24/2012	Trading Technologies International, Inc.
10/17/2011	13/275,009	8,311,932	11/13/2012	Trading Technologies International, Inc.
10/26/2011	13/282,137	8,166,182	4/24/2012	Trading Technologies International, Inc.
12/12/2011	13/323,324	8,332,309	12/11/2012	Trading Technologies International, Inc.
12/28/2011	13/338,803	8,326,741	12/4/2012	Trading Technologies International, Inc.
1/19/2012	13/353,659	8,380,615	2/19/2013	Trading Technologies International, Inc.
1/21/2012	13/355,510	8,386,359	2/26/2013	Trading Technologies International, Inc.
2/1/2012	13/363,642	8,868,776	10/21/2014	Trading Technologies International, Inc.
2/7/2012	13/367,540	8,577,783	11/5/2013	Trading Technologies International, Inc.
2/7/2012	13/368,117	10,121,195	11/6/2018	Trading Technologies International, Inc.
2/20/2012	13/400,412	9,087,360	7/21/2015	Trading Technologies International, Inc.
2/20/2012	13/400,553	8,781,947	7/15/2014	Trading Technologies International, Inc.
3/6/2012	13/412,896	8,326,721	12/4/2012	Trading Technologies International, Inc.
3/9/2012	13/416,561	8,732,067	5/20/2014	Trading Technologies International, Inc.
3/15/2012	13/420,678	8,312,149	11/13/2012	Trading Technologies International, Inc.
3/15/2012	13/421,252	8,589,277	11/19/2013	Trading Technologies International, Inc.

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3/26/2012	13/430,008	8,359,262	1/22/2013	Trading Technologies International, Inc.
3/27/2012	13/431,663	8,751,358	6/10/2014	Trading Technologies International, Inc.
3/29/2012	13/433,892	10,755,351	8/25/2020	Trading Technologies International, Inc.
4/9/2012	13/442,691	8,266,049	9/11/2012	Trading Technologies International, Inc.
4/12/2012	13/444,993	8,401,959	3/19/2013	Trading Technologies International, Inc.
4/12/2012	13/445,287	8,671,048	3/11/2014	Trading Technologies International, Inc.
4/19/2012	13/451,372	8,583,541	11/12/2013	Trading Technologies International, Inc.
4/24/2012	13/454,586	8,429,062	4/23/2013	Trading Technologies International, Inc.
5/4/2012	13/463,990	8,380,598	2/19/2013	Trading Technologies International, Inc.
5/10/2012	13/468,637	8,311,919	11/13/2012	Trading Technologies International, Inc.
5/14/2012	13/470,391	8,380,599	2/19/2013	Trading Technologies International, Inc.
5/14/2012	13/471,352	10,078,869	9/18/2018	Trading Technologies International, Inc.
5/15/2012	13/471,564	8,738,504	5/27/2014	Trading Technologies International, Inc.
6/8/2012	13/492,726	8,682,765	3/25/2014	Trading Technologies International, Inc.
6/13/2012	13/495,392	8,799,135	8/5/2014	Trading Technologies International, Inc.
6/29/2012	13/537,662	8,433,637	4/30/2013	Trading Technologies International, Inc.
7/19/2012	13/552,917			Trading Technologies International, Inc.
7/19/2012	13/553,397	8,510,212	8/13/2013	Trading Technologies International, Inc.
7/20/2012	13/553,985	8,548,899	10/1/2013	Trading Technologies International, Inc.
7/25/2012	13/558,328	9,159,103	10/13/2015	Trading Technologies International, Inc.
7/31/2012	13/563,349	8,560,430	10/15/2013	Trading Technologies International, Inc.
8/13/2012	13/584,061	8,831,988	9/9/2014	Trading Technologies International, Inc.
8/16/2012	13/587,865	8,395,625	3/12/2013	Trading Technologies International, Inc.

9/7/2012	13/607,061	8,612,335	12/17/2013	Trading Technologies International, Inc.
9/13/2012	13/614,126	8,407,135	3/26/2013	Trading Technologies International, Inc.
9/26/2012	13/626,887	8,484,114	7/9/2013	Trading Technologies International, Inc.
9/26/2012	13/627,232	8,566,456	10/22/2013	Trading Technologies International, Inc.
9/26/2012	13/627,983	8,738,506	5/27/2014	Trading Technologies International, Inc.
9/27/2012	13/628,445	8,433,646	4/30/2013	Trading Technologies International, Inc.
10/4/2012	13/645,185			Trading Technologies International, Inc.
10/12/2012	13/650,476	8,712,904	4/29/2014	Trading Technologies International, Inc.
10/19/2012	13/655,926	10,007,949	6/26/2018	Trading Technologies International, Inc.
10/24/2012	13/659,050	8,793,181	7/29/2014	Trading Technologies International, Inc.
10/24/2012	13/659,055	8,768,822	7/1/2014	Trading Technologies International, Inc.
10/31/2012	13/664,619	8,429,066	4/23/2013	Trading Technologies International, Inc.
11/1/2012	13/666,431	8,682,781	3/25/2014	Trading Technologies International, Inc.
11/12/2012	13/674,609	8,473,407	6/25/2013	Trading Technologies International, Inc.
11/13/2012	13/675,592	10,282,782	5/7/2019	Trading Technologies International, Inc.
12/10/2012	13/709,679	8,606,689	12/10/2013	Trading Technologies International, Inc.
12/10/2012	13/709,692	8,751,368	6/10/2014	Trading Technologies International, Inc.
12/10/2012	13/709,769	11138525	10/5/2021	Trading Technologies International, Inc.
12/18/2012	13/718,949	10,049,404	8/14/2018	Trading Technologies International, Inc.
12/20/2012	13/721,462	8,762,254	6/24/2014	Trading Technologies International, Inc.
12/20/2012	13/722,649	9,280,791	3/8/2016	Trading Technologies International, Inc.
12/31/2012	13/732,064	9,426,245	8/23/2016	Trading Technologies International, Inc.
12/31/2012	13/732,122	10,467,691	11/5/2019	Trading Technologies International, Inc.

1/14/2013	13/740,893	8,566,209	10/22/2013	Trading Technologies International, Inc.
1/16/2013	13/742,538	8,595,111	11/26/2013	Trading Technologies International, Inc.
1/16/2013	13/743,002	9,811,860	11/7/2017	Trading Technologies International, Inc.
1/16/2013	13/743,119	8,682,775	3/25/2014	Trading Technologies International, Inc.
1/18/2013	13/745,287	10776867	9/15/2020	Trading Technologies International, Inc.
1/21/2013	13/746,151	8,498,927	7/30/2013	Trading Technologies International, Inc.
2/6/2013	13/760,285	8,527,399	9/3/2013	Trading Technologies International, Inc.
2/6/2013	13/761,145	8,537,161	9/17/2013	Trading Technologies International, Inc.
2/13/2013	13/765,910	8,606,690	12/10/2013	Trading Technologies International, Inc.
2/13/2013	13/765,940	8,595,127	11/26/2013	Trading Technologies International, Inc.
3/13/2013	13/799,106	8,639,612	1/28/2014	Trading Technologies International, Inc.
3/15/2013	13/838,444	9,734,535	8/15/2017	Trading Technologies International, Inc.
3/15/2013	13/839,369	8,799,143	8/5/2014	Trading Technologies International, Inc.
3/26/2013	13/850,874	8,744,950	6/3/2014	Trading Technologies International, Inc.
3/27/2013	13/851,525	10,037,570	7/31/2018	Trading Technologies International, Inc.
4/1/2013	13/854,685	8,799,144	8/5/2014	Trading Technologies International, Inc.
4/3/2013	13/855,843	8,660,938	2/25/2014	Trading Technologies International, Inc.
4/8/2013	13/858,333	8,682,769	3/25/2014	Trading Technologies International, Inc.
6/6/2013	13/912,123	8,775,289	7/8/2014	Trading Technologies International, Inc.
6/26/2013	13/927,797	8,688,568	4/1/2014	Trading Technologies International, Inc.
7/2/2013	13/933,262	10,181,157	1/15/2019	Trading Technologies International, Inc.
7/3/2013	13/934,785	9,772,685	9/26/2017	Trading Technologies International, Inc.
7/3/2013	13/934,997			Trading Technologies International, Inc.

7/3/2013	13/935,208	9,767,515	9/19/2017	Trading Technologies International, Inc.
7/9/2013	13/937,785	10,169,815	1/1/2019	Trading Technologies International, Inc.
7/24/2013	13/949,464			Trading Technologies International, Inc.
8/6/2013	13/960,778	9,189,874	11/17/2015	Trading Technologies International, Inc.
8/7/2013	13/961,404	8,751,370	6/10/2014	Trading Technologies International, Inc.
8/9/2013	13/962,951	8,738,510	5/27/2014	Trading Technologies International, Inc.
8/21/2013	13/972,304			Trading Technologies International, Inc.
9/10/2013	14/023,464			Trading Technologies International, Inc.
9/17/2013	14/029,464	8,738,512	5/27/2014	Trading Technologies International, Inc.
9/18/2013	14/030,047	10,572,938	2/25/2020	Trading Technologies International, Inc.
9/20/2013	14/032,394	9,159,097	10/13/2015	Trading Technologies International, Inc.
9/30/2013	14/041,515	8,706,612	4/22/2014	Trading Technologies International, Inc.
10/7/2013	14/048,010	10,185,990	1/22/2019	Trading Technologies International, Inc.
10/8/2013	14/048,748	8,825,543	9/2/2014	Trading Technologies International, Inc.
10/10/2013	14/050,873	9,361,649	6/7/2016	Trading Technologies International, Inc.
10/15/2013	14/053,930	9,996,877	6/12/2018	Trading Technologies International, Inc.
10/22/2013	14/060,209	9,704,196	7/11/2017	Trading Technologies International, Inc.
10/23/2013	14/061,056	9,779,456	10/3/2017	Trading Technologies International, Inc.
11/1/2013	14/069,660	9,373,143	6/21/2016	Trading Technologies International, Inc.
11/4/2013	14/070,793	10,115,159	10/30/2018	Trading Technologies International, Inc.
11/7/2013	14/074,371	10,248,999	4/2/2019	Trading Technologies International, Inc.
11/13/2013	14/078,583	9,117,244	8/25/2015	Trading Technologies International, Inc.
11/20/2013	14/084,782	9,646,344	5/9/2017	Trading Technologies International, Inc.

12/11/2013	14/102,907	10672069	6/2/2020	Trading Technologies International, Inc.
12/11/2013	14/103,821	9,135,660	9/15/2015	Trading Technologies International, Inc.
12/18/2013	14/132,936	11,449,933	9/20/2022	Trading Technologies International, Inc.
12/18/2013	14/133,187	10,460,387	10/29/2019	Trading Technologies International, Inc.
12/26/2013	14/140,952			Trading Technologies International, Inc.
12/28/2013	14/142,844	11,435,895	9/6/2022	Trading Technologies International, Inc.
1/7/2014	14/148,984	9,679,334	6/13/2017	Trading Technologies International, Inc.
1/9/2014	14/151,366	9,672,563	6/6/2017	Trading Technologies International, Inc.
1/10/2014	14/152,061	8,924,286	12/30/2014	Trading Technologies International, Inc.
1/16/2014	14/157,495	10,346,909	7/9/2019	Trading Technologies International, Inc.
1/23/2014	14/162,261			Trading Technologies International, Inc.
1/24/2014	14/163,030	10,740,839	8/11/2020	Trading Technologies International, Inc.
1/29/2014	14/167,009	9,406,087	8/2/2016	Trading Technologies International, Inc.
2/5/2014	14/173,293	10885584	1/5/2021	Trading Technologies International, Inc.
2/6/2014	14/174,130			Trading Technologies International, Inc.
2/10/2014	14/176,471	9,773,279	9/26/2017	Trading Technologies International, Inc.
2/27/2014	14/192,144			Trading Technologies International, Inc.
3/3/2014	14/195,374	11138659	10/5/2021	Trading Technologies International, Inc.
3/10/2014	14/203,553			Trading Technologies International, Inc.
3/20/2014	14/220,222	10,650,453	5/12/2020	Trading Technologies International, Inc.
4/3/2014	14/244,590	10,255,634	4/9/2019	Trading Technologies International, Inc.
4/8/2014	14/247,440	10,395,315	8/27/2019	Trading Technologies International, Inc.
4/8/2014	14/248,333			Trading Technologies International, Inc.

4/11/2014	14/251,556	9,830,652	11/28/2017	Trading Technologies International, Inc.
4/16/2014	14/254,044	10,121,197	11/6/2018	Trading Technologies International, Inc.
4/17/2014	14/255,513	10672071	6/2/2020	Trading Technologies International, Inc.
4/21/2014	14/257,075	9,741,076	8/22/2017	Trading Technologies International, Inc.
4/24/2014	14/261,411			Trading Technologies International, Inc.
4/28/2014	14/262,955	10,600,120	3/24/2020	Trading Technologies International, Inc.
4/30/2014	14/265,578	10,062,114	8/28/2018	Trading Technologies International, Inc.
5/15/2014	14/278,193	9,773,280	9/26/2017	Trading Technologies International, Inc.
5/16/2014	14/279,323			Trading Technologies International, Inc.
5/29/2014	14/290,946	9,830,653	11/28/2017	Trading Technologies International, Inc.
5/30/2014	14/291,447	10937093	3/2/2021	Trading Technologies International, Inc.
6/9/2014	14/299,685	10,346,919	7/9/2019	Trading Technologies International, Inc.
6/12/2014	14/302,637	9,760,948	9/12/2017	Trading Technologies International, Inc.
6/21/2014	14/311,282			Trading Technologies International, Inc.
6/25/2014	14/314,250	9,721,299	8/1/2017	Trading Technologies International, Inc.
6/25/2014	14/314,427	10,102,576	10/16/2018	Trading Technologies International, Inc.
6/26/2014	14/315,431			Trading Technologies International, Inc.
7/11/2014	14/329,602	10,664,548	5/26/2020	Trading Technologies International, Inc.
7/17/2014	14/333,554	9,536,265	1/3/2017	Trading Technologies International, Inc.
7/31/2014	14/449,125	10,037,572	7/31/2018	Trading Technologies International, Inc.
8/5/2014	14/451,465	9,990,676	6/5/2018	Trading Technologies International, Inc.
8/7/2014	14/454,706	9,830,654	11/28/2017	Trading Technologies International, Inc.
9/17/2014	14/488,974	9,639,896	5/2/2017	Trading Technologies International, Inc.

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9/24/2014	14/495,841	10,185,991	1/22/2019	Trading Technologies International, Inc.
9/30/2014	14/502,946	9,813,895	11/7/2017	Trading Technologies International, Inc.
11/20/2014	14/548,425	9,813,518	11/7/2017	Trading Technologies International, Inc.
12/18/2014	14/576,181	10887370	1/5/2021	Trading Technologies International, Inc.
12/31/2014	14/588,154	10,068,292	9/4/2018	Trading Technologies International, Inc.
1/28/2015	14/607,829			Trading Technologies International, Inc.
3/20/2015	14/664,169	10,776,868	9/15/2020	Trading Technologies International, Inc.
4/2/2015	14/677,360	9,830,657	11/28/2017	Trading Technologies International, Inc.
6/10/2015	14/735,833			Trading Technologies International, Inc.
6/12/2015	14/738,286	10,241,664	3/26/2019	Trading Technologies International, Inc.
7/10/2015	14/796,247	10,185,992	1/22/2019	Trading Technologies International, Inc.
7/17/2015	14/802,527			Trading Technologies International, Inc.
8/3/2015	14/816,560	10,706,468	7/7/2020	Trading Technologies International, Inc.
8/5/2015	14/819,019	10,565,646	2/18/2020	Trading Technologies International, Inc.
8/17/2015	14/828,017	10,354,326	7/16/2019	Trading Technologies International, Inc.
9/8/2015	14/847,872	10,192,269	1/29/2019	Trading Technologies International, Inc.
9/14/2015	14/852,877	10896464	1/19/2021	Trading Technologies International, Inc.
10/15/2015	14/884,175	9,542,709	1/10/2017	Trading Technologies International, Inc.
12/18/2015	14/975,413	10915952	2/9/2021	Trading Technologies International, Inc.
12/18/2015	14/975,460	11080784	8/3/2021	Trading Technologies International, Inc.
12/22/2015	14/979,160			Trading Technologies International, Inc.
12/30/2015	14/984,327	10,546,349	1/28/2020	Trading Technologies International, Inc.
12/31/2015	14/985,543			Trading Technologies International, Inc.

1/26/2016	15/006,836	10,169,818	1/1/2019	Trading Technologies International, Inc.
5/9/2016	15/149,441	9,697,570	7/4/2017	Trading Technologies International, Inc.
5/16/2016	15/156,212	10,120,524	11/6/2018	Trading Technologies International, Inc.
6/27/2016	15/194,363	11182853	11/23/2021	Trading Technologies International, Inc.
6/29/2016	15/196,706	10,664,911	5/26/2020	Trading Technologies International, Inc.
7/25/2016	15/218,649	9,830,658	11/28/2017	Trading Technologies International, Inc.
10/14/2016	15/294,044	10,552,735	2/4/2020	Trading Technologies International, Inc.
11/22/2016	15/359,440	10,424,017	9/24/2019	Trading Technologies International, Inc.
11/29/2016	15/363,899	9,852,530	12/26/2017	Trading Technologies International, Inc.
1/26/2017	15/416,796	10,424,018	9/24/2019	Trading Technologies International, Inc.
3/8/2017	15/453,713	10,740,841	8/11/2020	Trading Technologies International, Inc.
3/14/2017	15/458,504	10,296,975	5/21/2019	Trading Technologies International, Inc.
3/15/2017	15/459,967	10,380,688	8/13/2019	Trading Technologies International, Inc.
4/3/2017	15/477,852	10,373,252	8/6/2019	Trading Technologies International, Inc.
4/18/2017	15/490,196	10,521,860	12/31/2019	Trading Technologies International, Inc.
5/5/2017	15/588,151	10,755,352	8/25/2020	Trading Technologies International, Inc.
5/31/2017	15/610,144	10,043,215	8/7/2018	Trading Technologies International, Inc.
6/1/2017	15/611,285	10699337	6/30/2020	Trading Technologies International, Inc.
6/26/2017	15/633,234	10,304,134	5/28/2019	Trading Technologies International, Inc.
6/27/2017	15/634,661	10,032,222	7/24/2018	Trading Technologies International, Inc.
6/29/2017	15/637,911	10,726,480	7/28/2020	Trading Technologies International, Inc.
7/19/2017	15/654,292	11068981	7/20/2021	Trading Technologies International, Inc.
8/4/2017	15/669,491	10,726,481	7/28/2020	Trading Technologies International, Inc.

8/17/2017	15/679,865	10,026,127	7/17/2018	Trading Technologies International, Inc.
8/21/2017	15/682,256	10,269,072	4/23/2019	Trading Technologies International, Inc.
8/22/2017	15/683,492	10,755,353	8/25/2020	Trading Technologies International, Inc.
8/22/2017	15/683,514	10,101,808	10/16/2018	Trading Technologies International, Inc.
8/30/2017	15/691,324	10,713,719	7/14/2020	Trading Technologies International, Inc.
9/8/2017	15/699,811			Trading Technologies International, Inc.
9/21/2017	15/711,835	10,785,338	9/22/2020	Trading Technologies International, Inc.
10/3/2017	15/723,962	10,200,854	2/5/2019	Trading Technologies International, Inc.
10/6/2017	15/727,194	10,726,482	7/28/2020	Trading Technologies International, Inc.
10/23/2017	15/791,000	10,552,906	2/4/2020	Trading Technologies International, Inc.
10/24/2017	15/792,283	10,275,830	4/30/2019	Trading Technologies International, Inc.
10/24/2017	15/792,299	10,089,689	10/2/2018	Trading Technologies International, Inc.
10/26/2017	15/794,978	9,984,413	5/29/2018	Trading Technologies International, Inc.
11/1/2017	15/801,038	10679288	6/9/2020	Trading Technologies International, Inc.
11/16/2017	15/815,263	10,062,189	8/28/2018	Trading Technologies International, Inc.
12/22/2017	15/852,625	11,354,737	6/7/2022	Trading Technologies International, Inc.
2/21/2018	15/901,644	10,726,484	7/28/2020	Trading Technologies International, Inc.
4/19/2018	15/957,560	10,529,023	1/7/2020	Trading Technologies International, Inc.
4/25/2018	15/962,516	10,540,718	1/21/2020	Trading Technologies International, Inc.
5/11/2018	15/977,614	10796365	10/6/2020	Trading Technologies International, Inc.
5/25/2018	15/989,851	10789646	9/29/2020	Trading Technologies International, Inc.
6/13/2018	16/007,480	10,572,941	2/25/2020	Trading Technologies International, Inc.
6/14/2018	16/008,642	10699339	6/30/2020	Trading Technologies International, Inc.

6/25/2018	16/017,524	10,402,904	9/3/2019	Trading Technologies International, Inc.
6/26/2018	16/019,209	10,319,034	6/11/2019	Trading Technologies International, Inc.
6/27/2018	16/020,142			Trading Technologies International, Inc.
7/2/2018	16/025,353	10977731	4/13/2021	Trading Technologies International, Inc.
7/10/2018	16/031,542	10679289	6/9/2020	Trading Technologies International, Inc.
7/18/2018	16/038,909	10,275,913	4/30/2019	Trading Technologies International, Inc.
7/24/2018	16/044,076	10,664,913	5/26/2020	Trading Technologies International, Inc.
8/1/2018	16/052,156	11037242	6/15/2021	Trading Technologies International, Inc.
8/14/2018	16/103,604	10,410,286	9/10/2019	Trading Technologies International, Inc.
8/14/2018	16/103,650	10672074	6/2/2020	Trading Technologies International, Inc.
9/6/2018	16/123,782	10698480	6/30/2020	Trading Technologies International, Inc.
9/6/2018	16/123,824	10,504,182	12/10/2019	Trading Technologies International, Inc.
9/11/2018	16/127,731	10,713,720	7/14/2020	Trading Technologies International, Inc.
9/12/2018	16/129,261	10,748,211	8/18/2020	Trading Technologies International, Inc.
9/28/2018	16/146,406	11,452,097	9/20/2022	Trading Technologies International, Inc.
9/28/2018	16/146,799	10,515,411	12/24/2019	Trading Technologies International, Inc.
10/3/2018	16/150,729	10795530	10/6/2020	Trading Technologies International, Inc.
11/13/2018	16/189,485			Trading Technologies International, Inc.
11/28/2018	16/203,083	10896466	1/19/2021	Trading Technologies International, Inc.
12/6/2018	16/212,086	10679290	6/9/2020	Trading Technologies International, Inc.
12/7/2018	16/213,528	10902516	1/26/2021	Trading Technologies International, Inc.
12/12/2018	16/217,910	10,776,872	9/15/2020	Trading Technologies International, Inc.
12/12/2018	16/217,989	10,748,213	8/18/2020	Trading Technologies International, Inc.

12/14/2018	16/220,964	10,636,090	4/28/2020	Trading Technologies International, Inc.
12/19/2018	16/226,032	10,492,059	11/26/2019	Trading Technologies International, Inc.
2/4/2019	16/266,606	10,726,486	7/28/2020	Trading Technologies International, Inc.
2/13/2019	16/274,945	10942638	3/9/2021	Trading Technologies International, Inc.
2/27/2019	16/287,164	10,565,653	2/18/2020	Trading Technologies International, Inc.
3/6/2019	16/294,375			Trading Technologies International, Inc.
3/8/2019	16/297,009	11153208	10/19/2021	Trading Technologies International, Inc.
3/14/2019	16/353,124	10,467,784	11/5/2019	Trading Technologies International, Inc.
3/15/2019	16/355,310	10,529,025	1/7/2020	Trading Technologies International, Inc.
3/20/2019	16/359,396	11094012	8/17/2021	Trading Technologies International, Inc.
4/4/2019	16/375,617	10,572,942	2/25/2020	Trading Technologies International, Inc.
4/8/2019	16/377,822			Trading Technologies International, Inc.
4/9/2019	16/379,271	10,552,907	2/4/2020	Trading Technologies International, Inc.
4/29/2019	16/397,529			Trading Technologies International, Inc.
5/20/2019	16/416,979	10692145	6/23/2020	Trading Technologies International, Inc.
5/21/2019	16/418,330	10937100	3/2/2021	Trading Technologies International, Inc.
5/29/2019	16/425,561	11100582	8/24/2021	Trading Technologies International, Inc.
6/21/2019	16/448,857	11100583	8/24/2021	Trading Technologies International, Inc.
6/21/2019	16/448,897	10,733,670	8/4/2020	Trading Technologies International, Inc.
7/3/2019	16/502,304	11151649	10/19/2021	Trading Technologies International, Inc.
7/17/2019	16/514,188	11120500	9/14/2021	Trading Technologies International, Inc.
8/9/2019	16/537,043	10997657	5/4/2021	Trading Technologies International, Inc.
8/14/2019	16/540,585	11138662	10/5/2021	Trading Technologies International, Inc.

9/20/2019	16/577,606	10,643,357	5/5/2020	Trading Technologies International, Inc.
9/25/2019	16/582,446	11176611	11/16/2021	Trading Technologies International, Inc.
10/1/2019	16/589,723	11138663	10/5/2021	Trading Technologies International, Inc.
10/17/2019	16/655,992	10,735,946	8/4/2020	Trading Technologies International, Inc.
10/17/2019	16/656,027	11055782	7/6/2021	Trading Technologies International, Inc.
10/30/2019	16/668,932	10776873	9/15/2020	Trading Technologies International, Inc.
11/8/2019	16/678,676	10902517	1/26/2021	Trading Technologies International, Inc.
11/21/2019	16/691,067	10846797	11/24/2020	Trading Technologies International, Inc.
12/5/2019	16/704,493	10915957	2/9/2021	Trading Technologies International, Inc.
12/6/2019	16/706,117			Trading Technologies International, Inc.
12/11/2019	16/710,658	10970782	4/6/2021	Trading Technologies International, Inc.
12/17/2019	16/717,079	11023975	6/1/2021	Trading Technologies International, Inc.
12/24/2019	16/726,496	11216880	1/4/2022	Trading Technologies International, Inc.
12/27/2019	16/728,512			Trading Technologies International, Inc.
12/31/2019	16/731,421			Trading Technologies International, Inc.
1/3/2020	16/733,804	10937095	3/2/2021	Trading Technologies International, Inc.
1/8/2020	16/737,166	11257156	2/22/2022	Trading Technologies International, Inc.
1/8/2020	16/737,246	11270378	3/8/2022	Trading Technologies International, Inc.
2/13/2020	16/790,369	11068986	7/20/2021	Trading Technologies International, Inc.
3/19/2020	16/823,773	11010942	5/18/2021	Trading Technologies International, Inc.
4/8/2020	16/843,274			Trading Technologies International, Inc.
4/14/2020	16/848,276			Trading Technologies International, Inc.
4/15/2020	16/849,416	11,288,743	3/29/2022	Trading Technologies International, Inc.

4/15/2020	16/849,453	11048772	6/29/2021	Trading Technologies International, Inc.
4/23/2020	16/856,487	11,410,237	8/9/2022	Trading Technologies International, Inc.
4/24/2020	16/857,551	11232519	1/25/2022	Trading Technologies International, Inc.
4/28/2020	16/860,394	11216882	1/4/2022	Trading Technologies International, Inc.
4/29/2020	16/861,618	11,397,988	7/26/2022	Trading Technologies International, Inc.
4/30/2020	16/863,436			Trading Technologies International, Inc.
5/12/2020	16/872,784	11250510	2/15/2022	Trading Technologies International, Inc.
5/20/2020	16/879,131	11256329	2/22/2022	Trading Technologies International, Inc.
5/21/2020	16/880,372	11341578	5/24/2022	Trading Technologies International, Inc.
5/22/2020	16/882,174	11,393,030	7/19/2022	Trading Technologies International, Inc.
6/3/2020	16/891,392	11,410,238	8/9/2022	Trading Technologies International, Inc.
6/4/2020	16/892,965	11132747	9/28/2021	Trading Technologies International, Inc.
6/5/2020	16/894,104	11,361,377	6/14/2022	Trading Technologies International, Inc.
6/11/2020	16/898,911	11,397,989	7/26/2022	Trading Technologies International, Inc.
6/16/2020	16/903,053	11,416,937	8/16/2022	Trading Technologies International, Inc.
6/17/2020	16/904,217	11,410,239	8/9/2022	Trading Technologies International, Inc.
6/18/2020	16/905,413	11238536	2/1/2022	Trading Technologies International, Inc.
6/23/2020	16/909,399	11257159	2/22/2022	Trading Technologies International, Inc.
6/24/2020	16/910,933	11244397	2/8/2022	Trading Technologies International, Inc.
6/24/2020	16/910,976	11064349	7/13/2021	Trading Technologies International, Inc.
6/25/2020	16/912,129	11250511	2/15/2022	Trading Technologies International, Inc.
7/1/2020	16/918,570	11,361,378	6/14/2022	Trading Technologies International, Inc.
7/1/2020	16/918,602			Trading Technologies International, Inc.

7/8/2020	16/923,625			Trading Technologies International, Inc.
7/14/2020	16/928,224			Trading Technologies International, Inc.
7/16/2020	16/930,466	11,334,943	5/17/2022	Trading Technologies International, Inc.
7/28/2020	16/941,003	11,334,944	5/17/2022	Trading Technologies International, Inc.
8/5/2020	16/985,706	11,501,372		Trading Technologies International, Inc.
8/11/2020	16/990,637	11138665	10/5/2021	Trading Technologies International, Inc.
8/12/2020	16/991,729			Trading Technologies International, Inc.
8/13/2020	16/992,780	11323533	5/3/2022	Trading Technologies International, Inc.
8/14/2020	16/994,150	11,436,676	9/6/2022	Trading Technologies International, Inc.
9/1/2020	17/009,400	11314372	4/26/2022	Trading Technologies International, Inc.
9/4/2020	17/012,679	11,295,385	4/5/2022	Trading Technologies International, Inc.
9/17/2020	17/024,300			Trading Technologies International, Inc.
9/18/2020	17/025,540	11120501	9/14/2021	Trading Technologies International, Inc.
10/9/2020	17/067,309	11,334,946	5/17/2022	Trading Technologies International, Inc.
10/27/2020	17/081,553	11,373,241	6/28/2022	Trading Technologies International, Inc.
12/2/2020	17/109,992	11196796	12/7/2021	Trading Technologies International, Inc.
12/3/2020	17/111,232			Trading Technologies International, Inc.
12/14/2020	17/121,185			Trading Technologies International, Inc.
12/14/2020	17/121,345	11,416,938	8/16/2022	Trading Technologies International, Inc.
12/14/2020	17/121,368			Trading Technologies International, Inc.
12/16/2020	17/124,136			Trading Technologies International, Inc.
12/17/2020	17/125,854	11,393,034	7/19/2022	Trading Technologies International, Inc.
12/14/2009	17/133,329			Trading Technologies International, Inc.

1/6/2021	17/143,129			Trading Technologies International, Inc.
1/21/2021	17/155,063			Trading Technologies International, Inc.
1/26/2021	17/159,134			Trading Technologies International, Inc.
2/25/2021	17/185,651			Trading Technologies International, Inc.
3/10/2021	17/197,653			Trading Technologies International, Inc.
3/25/2021	17/212,563			Trading Technologies International, Inc.
4/9/2021	17/226,906	11,334,641	5/17/2022	Trading Technologies International, Inc.
4/21/2021	17/236,391			Trading Technologies International, Inc.
4/27/2021	17/241,925			Trading Technologies International, Inc.
5/21/2021	17/327,198			Trading Technologies International, Inc.
5/24/2021	17/328,445	11,449,939	9/20/2022	Trading Technologies International, Inc.
6/3/2021	17/337,943			Trading Technologies International, Inc.
6/8/2021	17/342,172			Trading Technologies International, Inc.
6/9/2021	17/343,130			Trading Technologies International, Inc.
6/23/2021	17/355,999			Trading Technologies International, Inc.
6/25/2021	17/358,940			Trading Technologies International, Inc.
6/29/2021	17/362,409			Trading Technologies International, Inc.
7/2/2021	17/366,921			Trading Technologies International, Inc.
7/14/2021	17/376,059	11,468,512	10/11/2022	Trading Technologies International, Inc.
7/23/2021	17/384,174			Trading Technologies International, Inc.
7/30/2021	17/390,700			Trading Technologies International, Inc.
8/17/2021	17/404,631			Trading Technologies International, Inc.
8/27/2021	17/460,107			Trading Technologies International, Inc.

8/27/2021	17/460,115			Trading Technologies International, Inc.
9/2/2021	17/465,600			Trading Technologies International, Inc.
9/7/2021	17/468,209			Trading Technologies International, Inc.
9/9/2021	17/470,990			Trading Technologies International, Inc.
9/13/2021	17/473,955			Trading Technologies International, Inc.
9/28/2021	17/488,220			Trading Technologies International, Inc.
10/18/2021	17/504,084			Trading Technologies International, Inc.
10/21/2021	17/507,715			Trading Technologies International, Inc.
11/19/2021	17/531,162			Trading Technologies International, Inc.
11/23/2021	17/534,263			Trading Technologies International, Inc.
12/9/2021	17/546,842			Trading Technologies International, Inc.
12/13/2021	17/549,684			Trading Technologies International, Inc.
12/28/2021	17/563,828			Trading Technologies International, Inc.
1/4/2022	17/568,523			Trading Technologies International, Inc.
1/5/2022	17/569,411			Trading Technologies International, Inc.
1/7/2022	17/570,932			Trading Technologies International, Inc.
1/13/2022	17/575,293			Trading Technologies International, Inc.
1/14/2022	17/576,374			Trading Technologies International, Inc.
1/25/2022	17/584,067			Trading Technologies International, Inc.
2/2/2022	17/591,502			Trading Technologies International, Inc.
2/8/2022	17/667,074			Trading Technologies International, Inc.
2/23/2022	17/678,538			Trading Technologies International, Inc.
3/16/2022	17/696,478			Trading Technologies International, Inc.

3/22/2022	17/701,184			Trading Technologies International, Inc.
3/23/2022	17/702,402			Trading Technologies International, Inc.
4/6/2022	17/714,684			Trading Technologies International, Inc.
4/8/2022	17/716,614			Trading Technologies International, Inc.
4/11/2022	17/717,488			Trading Technologies International, Inc.
4/14/2022	17/720,904			Trading Technologies International, Inc.
4/19/2022	17/723,924			Trading Technologies International, Inc.
5/4/2022	17/736,446			Trading Technologies International, Inc.
5/6/2022	17/738,519			Trading Technologies International, Inc.
6/13/2022	17/838,547			Trading Technologies International, Inc.
6/20/2022	17/844,122			Trading Technologies International, Inc.
6/22/2022	17/846,333			Trading Technologies International, Inc.
6/23/2022	17/847,865			Trading Technologies International, Inc.
6/29/2022	17/853,112			Trading Technologies International, Inc.
7/5/2022	17/857,808			Trading Technologies International, Inc.
7/6/2022	17/858,944			Trading Technologies International, Inc.
7/11/2022	17/862,137			Trading Technologies International, Inc.
7/12/2022	17/863,357			Trading Technologies International, Inc.
7/28/2022	17/875,712			Trading Technologies International, Inc.
7/28/2022	17/875,739			Trading Technologies International, Inc.
8/10/2022	17/884,919			Trading Technologies International, Inc.
10/15/2010	17/890,027			Trading Technologies International, Inc.
9/8/2022	17/940,359			Trading Technologies International, Inc.

9/13/2022	17/943,401			Trading Technologies International, Inc.
9/29/2022	17/956,240			Trading Technologies International, Inc.
5/11/2016	29/564,203	D815663	4/17/2018	Trading Technologies International, Inc.
12/7/2016	29/586,877	D836120	12/18/2018	Trading Technologies International, Inc.
12/7/2016	29/586,897	D854559	7/23/2019	Trading Technologies International, Inc.
12/7/2016	29/586,898	D839279	1/29/2019	Trading Technologies International, Inc.
12/7/2016	29/586,902	D808,986	1/30/2018	Trading Technologies International, Inc.
12/7/2016	29/586,907	D839880	2/5/2019	Trading Technologies International, Inc.
3/15/2018	29/640,594	D857729	8/27/2019	Trading Technologies International, Inc.
10/24/2018	29/667,766	D900840	11/3/2020	Trading Technologies International, Inc.
6/27/2019	29/696,438	D902245	11/17/2020	Trading Technologies International, Inc.
10/8/2020	29/754,275	D965,621	10/4/2022	Trading Technologies International, Inc.

TRADEMARKS

Owner's Name	Serial Number	Registration Number	Mark	Filing Date	Registration Date
Trading Technologies International, Inc.	88141748	5917987	TRADING TECHNOLOGIES	October 3, 2018	November 26, 2019
Trading Technologies International, Inc.	88141734	5750346	T	October 3, 2018	May 14, 2019
Trading Technologies International, Inc.	86380430	488625	TT	August 28, 2014	January 12, 2016
Trading Technologies International, Inc.	86978874	4970668	T TRADING TECHNOLOGIES	March 12, 2014	May 31, 2016
Trading Technologies International, Inc.	86978873	4970667	T TRADING TECHNOLOGIES	March 12, 2014	May 31, 2016
Trading Technologies International, Inc.	86839518	5291731	NEURENSIC	December 4, 2015	September 19, 2017
Trading Technologies International, Inc.	86653298	5096393	TT CAMPUSCONNECT	June 5, 2015	December 6, 2016
Trading Technologies International, Inc.	86218862	4960721	T	March 12, 2014	May 17, 2016
Trading Technologies International, Inc.	86218697	5291312	T TRADING TECHNOLOGIES	March 12, 2014	September 19, 2017
Trading Technologies International, Inc.	86218693	4960720	T TRADING TECHNOLOGIES	March 12, 2014	May 17, 2016
Trading Technologies International, Inc.	85306104	4369048	ADL	April 27, 2011	July 16, 2013
Trading Technologies International, Inc.	78834199	3420343	X_STUDY	March 10, 2006	April 29, 2008
Trading Technologies International, Inc.	78834194	3494005	TT CVD	March 10, 2006	August 26, 2008
Trading Technologies International, Inc.	78493016	3203413	NAVIGATOR	October 1, 2004	January 30, 2007
Trading Technologies International, Inc.	78472102	3034933	AUTOSPREADER	August 23, 2004	December 27, 2005
Trading Technologies International, Inc.	78318410	3044411	MD TRADER	October 24, 2003	January 17, 2006
Trading Technologies International, Inc.	77663227	3688638	X_RISK	February 4, 2009	September 29, 2009
Trading Technologies International, Inc.	76361425	2783691	TRADING TECHNOLOGIES	January 22, 2002	November 18, 2003
Trading Technologies International, Inc.	75411818	2232001	X_TRADER	December 29, 1997	March 16, 1999