

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5436854

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	PATENT SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
MONOTYPE IMAGING INC.	03/22/2019
MONOTYPE IMAGING HOLDINGS INC.	03/22/2019
IMAGING HOLDINGS CORP.	03/22/2019
MYFONTS INC.	03/22/2019
MONOTYPE ITC INC.	03/22/2019
OLAPIC, INC.	03/22/2019

RECEIVING PARTY DATA

Name:	BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT
Street Address:	100 FEDERAL STREET
City:	BOSTON
State/Country:	MASSACHUSETTS
Postal Code:	02110

PROPERTY NUMBERS Total: 49

Property Type	Number
Patent Number:	10134150
Patent Number:	9319444
Patent Number:	8896593
Patent Number:	8615709
Patent Number:	8201088
Patent Number:	7821515
Patent Number:	7719537
Patent Number:	7184046
Patent Number:	7002596
Patent Number:	6997543
Patent Number:	6992671
Patent Number:	6853980
Patent Number:	6437793
Patent Number:	6384839
Application Number:	12914428

PATENT

Property Type	Number
Patent Number:	10115215
Patent Number:	10002448
Patent Number:	9817615
Patent Number:	9805288
Patent Number:	9691169
Patent Number:	9626337
Patent Number:	9569865
Patent Number:	9472163
Patent Number:	9317777
Patent Number:	9275024
Patent Number:	8514243
Application Number:	15943311
Application Number:	15669660
Application Number:	14993424
Application Number:	15211110
Application Number:	14694494
Application Number:	14613751
Application Number:	14601763
Application Number:	15053610
Application Number:	14862499
Application Number:	14862626
Application Number:	14862356
Application Number:	14862404
Application Number:	14025117
Application Number:	14013395
Application Number:	14461468
Application Number:	14208951
Application Number:	13672992
Application Number:	14138282
Application Number:	13572082
Application Number:	13399146
Application Number:	13329771
Application Number:	13237273
Application Number:	13278713

CORRESPONDENCE DATA

Fax Number: (617)341-7701

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.

PATENT

REEL: 049566 FRAME: 0514

Phone: 617-951-8132
Email: linda.salera@morganlewis.com
Correspondent Name: LINDA A. SALERA, SENIOR PARALEGAL
Address Line 1: ONE FEDERAL STREET
Address Line 2: C/O MORGAN, LEWIS & BOCKIUS LLP
Address Line 4: BOSTON, MASSACHUSETTS 02110

NAME OF SUBMITTER:	LINDA A. SALERA
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SIGNATURE:	/Linda A. Salera/
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DATE SIGNED:	03/22/2019
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Total Attachments: 9

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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement" is entered into as of March 22, 2019 by and among each of the signatories listed as a grantor on the signature pages hereto (each and together, jointly and severally, the "Grantor"), in favor of BANK OF AMERICA, N.A., in its capacity as administrative agent pursuant to the Security and Pledge Agreement (in such capacity, together with its successors and assigns, the "Agent").

W I T N E S S E T H:

WHEREAS, each Grantor is party to a Security and Pledge Agreement, dated as of March 22, 2019 (as it may be amended, restated, extended, supplemented or otherwise modified in writing from time to time, the "Security Agreement"), in favor of the Agent pursuant to which such Grantor is required to execute and deliver this Patent Security Agreement;

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

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

SECTION 2. Grant of Security Interest in Patent Collateral. Each Grantor hereby pledges and grants to the 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 following pledged Collateral of Grantor:

- (a) all Patents and Patent License of such Grantor, including those listed on Schedule I attached hereto; and
- (b) all proceeds of any and all of the foregoing.

SECTION 3. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Agent pursuant to the Security Agreement and each Grantor hereby acknowledges and affirms that the rights and remedies of the Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement (and are expressly subject to the terms and conditions thereof), the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

SECTION 4. Termination. Upon the Termination Date, the Agent shall execute, acknowledge, and deliver to each Grantor an instrument in writing in recordable form releasing the collateral pledge, grant, assignment, lien and security interest in the Patents under this Patent Security Agreement.

SECTION 5. Counterparts. This Patent 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 Patent Security Agreement by signing and delivering one or more counterparts.


SECTION 6. Governing Law. This Patent Security Agreement and any claims, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Patent Security Agreement and the transactions contemplated hereby shall be governed by, and construed in accordance with, the law of the State of New York.

[signature pages follow]

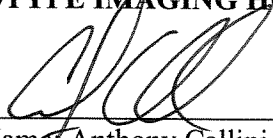
IN WITNESS WHEREOF, each Grantor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

GRANTORS:


MONOTYPE IMAGING INC.

By: 
Name: Anthony Callini
Title: Executive Vice President, Chief Financial
Officer, Assistant Secretary & Treasurer


MONOTYPE IMAGING HOLDINGS INC.

By: 
Name: Anthony Callini
Title: Executive Vice President, Chief Financial
Officer, Assistant Secretary & Treasurer


IMAGING HOLDINGS CORP.

By: 
Name: Anthony Callini
Title: Executive Vice President, Chief Financial
Officer, Assistant Secretary & Treasurer

MYFONTS INC.

By: 
Name: Anthony Callini
Title: Executive Vice President, Chief Financial
Officer, Assistant Secretary & Treasurer

MONOTYPE ITC INC.

By: 
Name: Anthony Callini
Title: Executive Vice President, Chief Financial
Officer, Assistant Secretary & Treasurer

OLAPIC, INC.

By: _____

Name: Anthony Callini

Title: Executive Vice President, Chief Financial
Officer, Assistant Secretary & Treasurer

Accepted and Agreed:

BANK OF AMERICA, N.A.,
as Agent

By: 
Name: Erik M. Truette
Title: Vice President

Patents:

<u>Loan Party/Owner</u>	<u>Patents</u>	<u>Application/ Publication Number</u>	<u>Application/Publication Date</u>
MonoType Imaging Inc. Imaging Holdings Corp.	Displaying graphics in multi-view scenes	US10134150B2	2018-11-20
MonoType Imaging Inc. Imaging Holdings Corp.	Font data streaming	US9319444B2	2016-04-19
MonoType Imaging Inc. Imaging Holdings Corp.	Producing three-dimensional graphics	US8896593B2	2014-11-25
MonoType Imaging Inc. Imaging Holdings Corp.	Initiating font subsets	US8615709B2	2013-12-24
MonoType Imaging Inc. Imaging Holdings Corp.	Method and apparatus for associating with an electronic document a font subset containing select character forms which are different depending on location	US8201088B2	2012-06-12
MonoType Imaging Inc. Imaging Holdings Corp.	Method for automatic font character height restriction	US7821515B2	2010-10-26
MonoType Imaging Inc. Imaging Holdings Corp.	Method for reducing size and increasing speed for font generation of instructions	US7719537B2	2010-05-18
MonoType Imaging Inc. Imaging Holdings Corp.	Method and apparatus for font storage reduction	US7184046B1	2007-02-27
MonoType Imaging Inc. Imaging Holdings Corp.	Anti-aliasing system and method	US7002596B1	2006-02-21
MonoType Imaging Inc. Imaging Holdings Corp.	Total ink control method for color rendering in printing system	US6997543B2	2006-02-14
MonoType Imaging Inc. Imaging Holdings Corp.	Method and apparatus for compressing Bezier descriptions of letterforms in outline fonts using vector quantization techniques	US6992671B1	2006-01-31
MonoType Imaging Inc. Imaging Holdings Corp.	System for selecting, distributing, and selling fonts	US6853980B1	2005-02-08

<u>Loan Party/Owner</u>	<u>Patents</u>	<u>Application/ Publication Number</u>	<u>Application/Publication Date</u>
Monotype Imaging Inc. Imaging Holdings Corp.	System for rapidly performing scan conversion with anti-aliasing upon outline fonts and other graphic elements	US6437793B1	2002-08-20
Monotype Imaging Inc. Imaging Holdings Corp.	Method and apparatus for rendering sub-pixel anti-aliased graphics on stripe topology color displays	US6384839B1	2002-05-07
Monotype Imaging Inc. Imaging Holdings Corp.	Presenting Content on Electronic Paper Displays	US20120105478A1 12/914428	2012-0503
MONOTYPE IMAGING INC.	Pairing fonts for presentation	10115215	2018-10-30
MONOTYPE IMAGING INC.	Producing glyph distance fields	10002448	2018-06-19
MONOTYPE IMAGING INC.	Network based font management for imaging devices	9817615	2017-11-14
MONOTYPE IMAGING INC.	Analyzing font similarity for presentation	9805288	2017-10-31
MONOTYPE IMAGING INC.	Compact font hinting	9691169	2017-06-27
MONOTYPE IMAGING INC.	Advanced text editor	9626337	2017-04-18
MONOTYPE IMAGING INC.	Supporting color fonts	9569865	2017-02-14
MONOTYPE IMAGING INC.	Adjusting content rendering for environmental conditions	9472163	2016-10-18
MONOTYPE IMAGING INC.	Analyzing font similarity for presentation	9317777	2016-04-19
MONOTYPE IMAGING INC.	Identifiers for web font templates	9275024	2016-03-01
MONOTYPE IMAGING INC.	Methods, systems, and programming for producing and displaying subpixel-optimized font bitmaps using non-linear color balancing	8514243	2013-06-20
MONOTYPE IMAGING INC.	MULTI-DIMENSIONAL FONT SPACE MAPPING AND PRESENTATION	15943311	2018-04-02

<u>Loan Party/Owner</u>	<u>Patents</u>	<u>Application/ Publication Number</u>	<u>Application/Publication Date</u>
MONOTYPE IMAGING INC.	CONTEXT ANALYSIS FOR MESSAGE ENHANCEMENT	15669660	2017-08-04
MONOTYPE IMAGING INC.	Converting Font Contour Curves	14993424	2016-01-12
MONOTYPE IMAGING INC.	Providing Font Security	15211110	2016-07-15
MONOTYPE IMAGING INC.	Using Similarity for Grouping Fonts and Individuals for Recommendations	14694494	2015-04-23
MONOTYPE IMAGING INC.	Using Character Classes for Font Selection	14613751	2015-02-04
MONOTYPE IMAGING INC.	Network Based Static Font Subset Management	14601763	2015-01-21
MONOTYPE IMAGING INC.	Font Data Streaming	15053610	2016-02-25
MONOTYPE IMAGING INC.	Selectable Text Messaging Styles for Brand Owners	14862499	2015-09-23
MONOTYPE IMAGING INC.	Selectable Styles for Text Messaging System Font Service Providers	14862626	2015-09-23
MONOTYPE IMAGING INC.	Selectable Styles for Text Messaging System User Devices	14862356	2015-09-23
MONOTYPE IMAGING INC.	Selectable Styles for Text Messaging System Publishers	14862404	2015-09-23
MONOTYPE IMAGING INC.	Font Management for Editing Electronic Documents	14025117	2013-09-12
MONOTYPE IMAGING INC.	Dynamically Adjustable Distance Fields for Adaptive Rendering	14013395	2013-08-29
MONOTYPE IMAGING INC.	PRODUCING THREE-DIMENSIONAL GRAPHICS	14461468	2014-08-18
MONOTYPE IMAGING INC.	Supporting Font Character Kerning	14208951	2014-03-13
MONOTYPE IMAGING INC.	Supporting Scalable Fonts	13672992	2012-11-09

<u>Loan Party/Owner</u>	<u>Patents</u>	<u>Application/ Publication Number</u>	<u>Application/Publication Date</u>
MONOTYPE IMAGING INC.	Initiating Font Subsets	14138282	2013-12-23
MONOTYPE IMAGING INC.	Network Based Font Subset Management	13572082	2012-08-10
MONOTYPE IMAGING INC.	Managing Font Distribution	13399146	2012-02-17
MONOTYPE IMAGING INC.	Adjusting Fonts for Visual Consistency	13329771	2011-12-19
MONOTYPE IMAGING INC.	Presenting Visual Challenges for Verifying Human Interaction	13237273	2011-09-20
MONOTYPE IMAGING INC.	EXTRACTING AND MANAGING FONT STYLE ELEMENTS	13278713	2011-10-21

PATENT

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RECORDED: 03/22/2019