505190462 11/14/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		SECURITY INTEREST			
CONVEYING PARTY	ΟΑΤΑ				
		Name	Execution Date		
MAUNA KEA TECHNC	LOGIES		11/13/2018		
RECEIVING PARTY D	ΑΤΑ				
Name:		IPF FUND I SCA, SICAV-FIS			
Street Address:	5, ALLEE	5, ALLEE SCHEFFER			
City:	LUXEMBO	DURG			
State/Country:	LUXEMBO	LUXEMBOURG			
Postal Code:	L-2520				
	1				
PROPERTY NUMBER	S Total: 5		_		
Property Type	•	Number			
Patent Number: 7447		47539			
Patent Number: 7903		03848			
Patent Number: 80813		1310			
Patent Number: 83003		00326			
Patent Number: 7869		69679			
CORRESPONDENCE	DATA				
Fax Number:		5)851-1420			
	be sent to th	e e-mail address first; if that is u			
	•	f that is unsuccessful, it will be s	ent via US Mail.		
Phone: Email:		2-549-0288 lipdocketing@reedsmith.com			
Correspondent Name	•	DNSTANTIN SOURIS, REED SMIT	НПР		
Address Line 1:		9 LEXINGTON AVENUE			
Address Line 4:		NEW YORK, NEW YORK 10022			
		-			
		769261.00021			
		/Constantin Souris/			
DATE SIGNED:		11/14/2018	11/14/2018		
otal Attachments: 10					

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EXECUTION VERSION

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT ("IP Security Agreement"), dated as of November 13, 2018, is made by and between MAUNA KEA TECHNOLOGIES, a société anonyme incorporated under the laws of the Republic of France under registration number 431 268 028 RCS Paris, having its registered office at 9, rue d'Enghien, 75010 Paris, France, as grantor, pledgor, assignor and debtor (together, with any successors and permitted assigns, the "Grantor"), in favor of and IPF FUND I SCA, SICAV-FIS, a société en commandite par actions incorporated under the laws of the Grand Duchy of Luxembourg under registration number B180887, having its registered office at 5, allée Scheffer, L - 2520 Luxembourg, Grand Duchy of Luxembourg, represented by IPF Management S.A. (formerly known as IPF Management I S.à.r.l), a société anonyme incorporated under the laws of the Grand Duchy of Luxembourg under registration number B175933, having its registered office at 4, rue de la Grève, L-1643 Luxembourg, Grand Duchy of Luxembourg, itself represented by duly authorized signatories for the purpose of the Subscription Agreement, in its capacity as bondholder representative, as pledgee, assignee and secured party (in such capacities and together with any successors in such capacities, the "Bondholder Representative"). Capitalized terms used herein and not otherwise defined shall have the meanings ascribed to such terms in the Subscription Agreement (as defined herein) or the Terms and Conditions (as defined in the Subscription Agreement), as applicable and each as amended, amended and restated, supplemented or otherwise modified from time to time in accordance with the respective provisions therein.

WHEREAS, pursuant to (i) that certain Subscription Agreement, dated as of February 3, 2017 (as amended, amended and restated, supplemented or otherwise modified from time to time in accordance with the provisions thereof, the "First Subscription Agreement"), by and among: the Grantor; MAUNA KEA TECHNOLOGIES, INC., a Delaware corporation, as Original Guarantor (the "Original Guarantor"); and IPF FUND I SCA, SICAV-FIS, a société en commandite par actions incorporated under the laws of the Grand Duchy of Luxembourg under registration number B180887, having its registered office at 5, allée Scheffer, L - 2520 Luxembourg, Grand Duchy of Luxembourg, represented by IPF Management S.A. (formerly known as IPF Management I S.à.r.l), a société anonyme incorporated under the laws of the Grand Duchy of Luxembourg under registration number B175933, having its registered office at 4, rue de la Grève, L-1643 Luxembourg, Grand Duchy of Luxembourg, itself represented by duly authorized signatories for the purpose of the First Subscription Agreement, as original subscriber of the Tranche A Bonds (the "Tranche A Original Subscriber" and together with its assignees and transferees in accordance with Clause 7 (Transfers by the Subscribers) of the First Subscription Agreement, the "Tranche A Subscriber") and IPF FUND I SCA, SICAV-FIS, a société en commandite par actions incorporated under the laws of the Grand Duchy of Luxembourg under registration number B180887, having its registered office at 5, allée Scheffer, L - 2520 Luxembourg, Grand Duchy of Luxembourg, represented by IPF Management S.A. (formerly known as IPF Management I S.à.r.l), a société anonyme incorporated under the laws of the Grand Duchy of Luxembourg under registration number B175933, having its registered office at 4, rue de la Grève, L-1643 Luxembourg, Grand Duchy of Luxembourg, itself represented by duly authorized signatories for the purpose of the First Subscription Agreement, as original subscriber of the Tranche B Bonds and (ii) that certain Subscription Agreement, dated as of the date hereof (as amended, amended and restated, supplemented or otherwise modified from time to time in accordance with the

provisions thereof, the "Second Subscription Agreement") (together with the First Subscription Agreement, individually and collectively, as the context requires, the "Subscription Agreement"), by and among: the Grantor; Original Guarantor; the Tranche A Original Subscriber; IPF FUND I SCA, SICAV-FIS, a société en commandite par actions incorporated under the laws of the Grand Duchy of Luxembourg under registration number B180887, having its registered office at 5, allée Scheffer, L - 2520 Luxembourg, Grand Duchy of Luxembourg, represented by IPF Management S.A. (formerly known as IPF Management I S.a.r.l), a société anonyme incorporated under the laws of the Grand Duchy of Luxembourg under registration number B175933, having its registered office at 4, rue de la Grève, L-1643 Luxembourg, Grand Duchy of Luxembourg, itself represented by duly authorized signatories for the purpose of the Second Subscription Agreement, as original subscriber of the Tranche C Bonds (the "Tranche C Original Subscriber" and together with its assignees and transferees in accordance with Clause 12 (Transfers by the Subscribers) of the Second Subscription Agreement, the "Tranche C Subscriber") and IPF FUND I SCA, SICAV-FIS, a société en commandite par actions incorporated under the laws of the Grand Duchy of Luxembourg under registration number B180887, having its registered office at 5, allée Scheffer, L - 2520 Luxembourg, Grand Duchy of Luxembourg, represented by IPF Management S.A. (formerly known as IPF Management I S.à.r.l), a société anonyme incorporated under the laws of the Grand Duchy of Luxembourg under registration number B175933, having its registered office at 4, rue de la Grève, L-1643 Luxembourg, Grand Duchy of Luxembourg, itself represented by duly authorized signatories for the purpose of the Second Subscription Agreement, as original subscriber of the Tranche D Bonds (the "Tranche D Original Subscriber" (together with the Tranche A Original Subscriber and the Tranche C Original Subscriber, the "Original Subscribers") and together with its assignees and transferees in accordance with Clause 12 (Transfers by the Subscribers) of the Second Subscription Agreement, the "Tranche D Subscriber") (together with the Tranche C Subscriber, the "Second Subscription Agreement Subscribers"; the Second Subscription Agreement Subscribers together with the Tranche A Subscriber, individually and collectively, as the context requires, the "Subscribers"), the Subscribers have agreed to subscribe the bonds issued by the Grantor under the Subscription Agreement as described therein.

WHEREAS, the Subscribers have required, as a condition precedent to, among others, the Second Subscription Agreement Subscribers subscribing the bonds being issued under, and entering into, the Second Subscription Agreement, that the Grantor execute and deliver that certain first ranking French law pledge over Core Intellectual Property, dated as of the date hereof (the "Security Agreement").

WHEREAS, the Subscribers have also required, as a condition precedent to, among others, the Second Subscription Agreement Subscribers subscribing the bonds being issued under, and entering into, the Second Subscription Agreement, that the Grantor execute and deliver this IP Security Agreement to the Bondholder Representative, for the ratable benefit of the Bondholder Representative and the Subscribers (collectively, the "Secured Parties"), to secure the payment and performance of all of the Secured Obligations.

WHEREAS, under the terms of the Security Agreement, the Grantor has granted to the Subscribers, a security interest in, among other property, certain intellectual property of the Grantor, and has agreed to execute and deliver this IP Security Agreement, for recording with national, federal and state government authorities, including, but not limited to, the United States Patent and Trademark Office and the United States Copyright Office.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor agrees with the Bondholder Representative as follows:

1. <u>Grant of Security</u>. The Grantor hereby pledges and grants to the Bondholder Representative, for the ratable benefit of the Secured Parties, a security interest in and to all of the right, title and interest of such Grantor in, to and under the following, to the extent constituting Core Intellectual Property (the "<u>IP Collateral</u>"):

(a) the patents and patent applications set forth in <u>Schedule 1</u> hereto and all reissues, divisions, continuations, continuations-in-part, renewals, extensions and reexaminations thereof and amendments thereto (the "<u>Patents</u>");

(b) the trademark registrations and applications set forth in <u>Schedule 2</u> hereto, together with the goodwill connected with the use thereof and symbolized thereby and all extensions and renewals thereof (the "<u>Trademarks</u>");

(c) the copyright registrations, applications and copyright registrations and applications exclusively licensed to the Grantor set forth in <u>Schedule 3</u> hereto, and all extensions and renewals thereof (the "<u>Copyrights</u>");

(d) all rights of any kind whatsoever of such Grantor accruing under any of the foregoing provided by applicable law of any jurisdiction, by international treaties and conventions and otherwise throughout the world;

(e) any and all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to any and all of the foregoing; and

(f) any and all claims and causes of action with respect to any of the foregoing, whether occurring before, on or after the date hereof, including all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present and future infringement, dilution, misappropriation, violation, misuse, breach or default, with the right but no obligation to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages.

2. <u>Recordation</u>. The Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks and the Register of Copyrights and any other government officials to record and register this IP Security Agreement upon request by the Bondholder Representative.

3. <u>Finance Documents</u>. This IP Security Agreement has been entered into pursuant to and in conjunction with the Security Agreement. The provisions of the Security Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights and remedies of the Bondholder Representative with respect to the IP Collateral are as provided by the Subscription Agreement, the Security Agreement and related documents, and nothing in this IP Security Agreement shall be deemed to limit such rights and remedies.

4. <u>Execution in Counterparts</u>. This IP Security Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page to this IP

Security Agreement by facsimile or in electronic (i.e., "pdf" or "tif") format shall be effective as delivery of a manually executed counterpart of this IP Security Agreement.

5. <u>Successors and Assigns</u>. This IP Security Agreement will be binding on and shall inure to the benefit of the parties hereto and their respective successors and assigns.

6. <u>Governing Law</u>. This IP Security Agreement shall be governed by, and construed in accordance with, the laws of the United States and the State of New York.

7. Appointment of Bondholder Representative. Each of the Subscribers hereby irrevocably appoints IPF FUND I SCA, SICAV-FIS, a société en commandite par actions incorporated under the laws of the Grand Duchy of Luxembourg under registration number B180887, having its registered office at 5, allée Scheffer, L - 2520 Luxembourg, Grand Duchy of Luxembourg, represented by IPF Management S.A. (formerly known as IPF Management I S.à.r.l), a société anonyme incorporated under the laws of the Grand Duchy of Luxembourg under registration number B175933, having its registered office at 4, rue de la Grève, L-1643 Luxembourg, Grand Duchy of Luxembourg, itself represented by duly authorized signatories for the purpose of the Subscription Agreement, to act on its behalf as the Bondholder Representative under this Agreement and authorizes the Bondholder Representative to take such actions on its behalf and to exercise such powers as are delegated to the Bondholder Representative by the terms hereof or thereof, together with such actions and powers as are reasonably incidental thereto. In such capacity, the Bondholder Representative shall have the right (and for the avoidance of doubt, is hereby granted the right by the Subscribers) to possess any of the Collateral and to exercise all rights and remedies available under this Agreement, the Uniform Commercial Code and other applicable law. The provisions of this Section 7 are solely for the benefit of the Bondholder Representative and the Subscribers, and neither the Grantor nor any other Obligor shall have rights as a third-party beneficiary of any of such provisions.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the Grantor has caused this Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

GRANTOR:

MAUNA KRA TECHNOLOGIES By: 16 l

Name: Robert Gershon

Title: (20

Address for Notices:

9 rue d'Enghien 75010 Paris, France

Signature Page to IP Security Agreement

BONDHOLDER REPRESENTATIVE:

IPF FUND I SCA, SICAV-FIS, represented by IPF Management S.A.

By: . . . By: Claire Lorenzi Name: Name: **Chief Financial Officer** Title: Title: Tononian <u>Nec</u> Address: _______ 4, rue de la Grève Address: 1_1642 Linnendorm L-1643 Luxembourg

Signature Page to IP Security Agreement

ACKNOWLEDGED AND AGREED (solely for purposes of Section 7):

M

IPF FUND I SCA, SICAV-FIS, as Tranche A Subscriber represented by IPF Management S.A.

By: E.C. 11.7	By:	$\underline{\mathcal{I}}_{\underline{\mathcal{I}}}^{\underline{\mathcal{I}}}$				
Name: Edward Guillat		Claire Lorenzi				
Title: Danaging Biredon		Chief Flnancial Officer				
Address: 4 Notes and to Speciot	Address:	4, rue de la Grève				
L-1643 Luxenber		L-1643 Luxembourg				
IPF FUND I SCA, SICAV-FIS, as Tranche C Subscriber represented by IPF Management S.A.						
By: <u>E Mt</u>	Ву:	<u>Allaensi</u>				
Name: <u>Elannad Grillat</u>		Claire Lorenzi				
Tille: <u>Nanayna Dhecto</u>	Title:	Chief Financial Officer				
Address: 4. Canada to ground	Address:	4, rue de la Grève				
c-1643 (machina	9	L-1643 Luxembourg				
IPF FUND I SCA, SICAV-FIS, as Tranche D Subscriber represented by IPF Management S.A.						
By: E. C. U.F	Ву:	<u>Aliensi</u>				
Name: John Coult	Name:	Claire Lorenzi				
Title: Danaging Diretor	Title:	Chief Financial Officer				
Address: 4 Concerta press		4, rue de la Grève				
Course anxendranog		L-1643 Luxembourg				

SCHEDULE 1

LIST OF PATENTS AND PATENT APPLICATIONS

Issued Patents

Grantor	Patent No.	Issue Date	First Named Inventor	Title
MAUNA KEA	7,447,539	July 11,	Genet; Magalie	Method and equipment for fiber optic high-
TECHNOLOGIES		2003	(Guyancourt,	resolution, in particular confocal,
			FR)	fluorescence imaging
MAUNA KEA	7,903,848	July 11,	Perchant;	Method for processing an image acquired
TECHNOLOGIES		2003	Aymeric (Paris,	through a guide consisting of a plurality of
			FR)	optical fibers
MAUNA KEA	8,081,310	June 9,	Viellerobe;	Multimarking fibre-type fluorescence
TECHNOLOGIES		2005	Bertrand	microscopic imaging method and system
			(Nogent sur	
			Marne, FR)	
MAUNA KEA	8,300,326	April 27,	Genet; Magalie	Miniaturized optical head with high spatial
TECHNOLOGIES		2007	(Guyancourt,	resolution and high sensitivity, especially
			FR)	for fibred confocal fluorescence imaging
MAUNA KEA	7,869,679	October 10,	Viellerobe;	Modular imaging system, modules for this
TECHNOLOGIES		2008	Bertrand	system and method implemented using this
			(Nogent sur	system
			Marne, FR)	

Pending Patent Applications

None.

Patent Licenses

None.

SCHEDULE 2

LIST OF TRADE NAMES, TRADEMARKS, SERVICES MARKS, INTERNET DOMAIN NAMES, TRADEMARK AND SERVICE MARK REGISTRATIONS AND APPLICATIONS FOR TRADEMARK AND SERVICE MARK REGISTRATIONS

Registered Trademarks

None.

Pending Trademark Applications

None.

Registered Trademarks Licenses

None.

Internet Domain Names

None.

SCHEDULE 3

LIST OF COPYRIGHTS, COPYRIGHT REGISTRATIONS AND APPLICATIONS FOR COPYRIGHT REGISTRATIONS

<u>Copyrights</u> (Registered Copyrights & Copyrights Pending Registration Applications)

None.

Copyright Licenses

None.