PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JJL TECHNOLOGIES LLC	09/12/2013

RECEIVING PARTY DATA

Name:	511 INNOVATIONS INC.
Street Address:	511 N. WASHINGTON AVE.
City:	MARSHALL
State/Country:	TEXAS
Postal Code:	75670

PROPERTY NUMBERS Total: 8

Property Type	Number
Patent Number:	6307629
Patent Number:	6490038
Patent Number:	6915955
Patent Number:	7110096
Patent Number:	7113283
Patent Number:	7397541
Patent Number:	8472012
Patent Number:	8786844

CORRESPONDENCE DATA

Fax Number: (877)347-8075

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: 9034074213
Email: alan@loudermilk.com
Correspondent Name: ALAN LOUDERMILK
Address Line 1: 511 N. WASHINGTON AVE.
Address Line 4: MARSHALL, TEXAS 75670

NAME OF SUBMITTER:	ALAN R LOUDERMILK
SIGNATURE:	/alan r loudermilk/
DATE SIGNED:	01/11/2017

	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, JJL Technologies LLC, an Illinois limited liability company, 9023 N. Menard, Morton Grove, Illinois 60053 ("Assignor"), hereby assigns, transfers, and conveys to 511 Innovations Inc., a Texas corporation, 511 N. Washington Avenue, Marshall, Texas 75670 ("Assignee"), its designees, successors, assigns, and legal representatives, the entire right, title and interest in and to the following United States and/or foreign patents and patent applications set forth on Schedule 1 attached hereto, and any other patents, reissues and extensions, whether in the form of continuation or divisional applications or otherwise, that may be granted or issued thereon, and all proceeds therefrom (including all license royalties and proceeds of infringement suits), and any and all causes of action (excepting claims against the United States of America) for past, present, and future infringement of any of the foregoing, including the right to collect royalties or damages for any such infringement and the right to sue on any such causes of action, for their own use and benefit and the use and benefit of their successors, assigns, and legal representatives, each and every of the foregoing rights, titles, and interests herein assigned to be held and enjoyed by Assignee, its successors, assigns, and legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor had this Assignment not been made.

Assignee is granted power of attorney by Assignor to correct, update, supplement, amend and/or modify Schedule 1 to the extent consistent with Assignee's agreement(s) with Assignor.

IN TESTIMONY WHEREOF, Assignor and Assignee have each caused this Assignment to be duly executed in its name and behalf by its designated officer, director or agent, whose name and title appear below.

Effective Date: September 12, 2013

Assignor:

JJL Technologies LLC

Russell W. Jung
Chief Operating Officer

Assignee:

511 Innovations Inc.

Paresh Patel
President

Schedule 1

Title	Appl. Number	Filing Date	Issue No.	Issue Date
Apparatus for determining optical characteristics of an object	08/581,851	1/2/1996	5745229	4/28/1998
Method for determining optical characteristics of teeth	08/582,054	1/2/1996	5759030	6/2/1998
Apparatus and method for measuring the color of teeth	08/909,991	8/12/1997	5851113	12/22/1998
Apparatus and method for measuring the color of teeth	08/909,982	8/12/1997	5871351	2/16/1999
Apparatus and method for measuring optical characteristics of teeth	08/886,564	7/1/1997	5880826	3/9/1999
Apparatus for measuring optical properties	08/909,989	8/12/1997	5883708	3/16/1999
Apparatus and method for measuring optical characteristics of an object	08/886,223	7/1/1997	5926262	7/20/1999
Method and apparatus for detecting and preventing counterfeiting	08/886,566	7/1/1997	5966205	10/12/1999
Method and apparatus for detecting and preventing counterfeiting	09/360,529	7/26/1999	6038016	3/14/2000
Apparatus and method for measuring color	08/909,666	8/12/1997	6040902	3/21/2000
Apparatus and method for measuring optical characteristics of an object	09/113,033	7/9/1998	6118521	9/12/2000
Apparatus and method for detecting curvature	09/113,805	7/9/1998	6127673	10/3/2000
Apparatus and method for measuring optical characteristics of an object	09/429,761	10/28/1999	6188471	2/13/2001
Apparatus and method for measuring optical characteristics of an object	09/626,933	7/27/2000	6222620	4/24/2001
Apparatus and method for measuring optical characteristics of an object	09/091,208	6/8/1998	6233047	5/15/2001
Apparatus and method for measuring optical characteristics of an object	09/113,656	7/10/1998	6239868	5/29/2001
Apparatus and method for measuring optical characteristics of an object	09/480,312	1/10/2000	6246471	6/12/2001
Integrated spectrometer assembly and methods	09/471,953	1/11/2000	6246479	6/12/2001
Method and apparatus for detecting and preventing	09/500,199	1/12/2000	6249339	6/19/2001

counterfeiting				
Apparatus and method for measuring optical characteristics of an object	09/263,919	1/13/2000	6249340	6/19/2001
Integrated spectrometer assembly and methods	09/471,300	1/14/2000	6249348	6/19/2001
Apparatus and method for measuring optical characteristics of teeth	09/091,170	1/15/2000	6254385	7/3/2001
Apparatus and method for measuring the color of teeth	08/909,664	1/16/2000	6264470	7/24/2001
Apparatus and method for measuring optical characteristics of an object	09/462,016	1/17/2000	6271913	8/7/2001
Apparatus and method for measuring optical characteristics of an object	09/586,539	1/18/2000	6301004	10/9/2001
Apparatus and method for measuring optical characteristics of an object	09/267,825	1/19/2000	6307629	10/23/2001
Spectrometer assembly	09/881,371	1/20/2000	6362888	3/26/2002
Apparatus for measuring optical characteristics of a substrate and pigments applied thereto	09/524,121	1/21/2000	6373573	4/16/2002
Apparatus and method for measuring optical characteristics of an object	09/968,302	1/22/2000	6381017	4/30/2002
Spectrometric apparatus and method for measuring optical characteristics of an object	09/877,847	1/23/2000	6414750	7/2/2002
Apparatus and method for measuring optical characteristics of an object	09/657,770	1/24/2000	6417917	7/9/2002
Apparatus and method for measuring optical characteristics of an object	09/198,591	1/25/2000	6449041	9/10/2002
Apparatus and method for measuring optical characteristics of an object	09/397,156	1/26/2000	6490038	12/3/2002
Apparatus and method for measuring optical characteristics of an object	09/462,020	1/27/2000	6501542	12/31/2002
Spectrometer having optical unit including a randomized fiber optic implement	09/872,365	1/28/2000	6519037	2/11/2003
Apparatus and method for measuring optical characteristics of an object	10/161,853	1/29/2000	6538726	3/25/2003
Apparatus and method for measuring optical characteristics of an object	10/134,087	1/30/2000	6570654	5/27/2003
Apparatus and method for measuring optical characteristics of teeth	09/922,180	1/31/2000	6573984	6/3/2003
Spectrometric apparatus and	10/160,843	2/1/2000	6583866	6/24/2003

method for measuring optical characteristics of an object				
Apparatus and method for measuring optical characteristics of an object	10/103,514	2/2/2000	6590660	7/8/2003
Apparatus and method for measuring optical characteristics of teeth	09/865,801	2/3/2000	6726476	4/27/2004
Spectrometer apparatus for determining an optical characteristic of an object or material having one or more sensors for determining a physical position or non-color property	10/215,726	2/4/2000	6870616	3/22/2005
Apparatus and method for measuring optical characteristics of an object	10/302,512	2/5/2000	6888634	5/3/2005
Apparatus for determining multi-bit data via light received by a light receiver and coupled to spectral sensors that measure light in spectral bands	10/039,205	2/6/2000	6915955	7/12/2005
Apparatus and method for measuring optical characteristics of an object	10/407,623	2/7/2000	6950189	9/27/2005
Methods for characterizing gems or precious stones using a probe having a plurality of light receivers	10/453,832	2/8/2000	6958810	10/25/2005
Methods for determining optical characteristics of dental objects using an imaging element and a spectrometer apparatus	09/872,071	2/9/2000	7018204	3/28/2006
Method for remotely controlling a spectral measurement device utilizing predicted service life or a remotely provided software upgrade including color reference or shade guide data	09/872,039	2/10/2000	7069186	6/27/2006
Methods for determining color or shade information of a dental object using an image generation device without operator identification of the position of a reference implement in the field of view of the image generation device	10/407,624	2/11/2000	7097450	8/29/2006
Method for determing optical characteristics through a protective barrier	11/235,969	2/12/2000	7110096	9/19/2006
Apparatus and method for	10/302,459	2/13/2000	7113283	9/26/2006

measuring color					
Methods for determining optical characteristics using light receivers of first and second numerical apertures and first and second critical heights	11/118,903	2/14/2000	7119892	10/10/2006	
Methods for determing optical characteristics including subsurface characteristics of dental objects using first and second light source-receiver pairs and first and second critical heights	11/257,625	2/15/2000	7139068	11/21/2006	
Color measurement apparatus operable as a pointing device, a computer display measurement device and a printer output measurement device	11/179,921	2/16/2000	7240839	7/10/2007	
Methods for determining optical characteristics of dental objects	09/904,610	2/17/2000	7244122	7/17/2007	
Apparatus and method for measuring optical characteristics of an object	11/523,798	2/18/2000	7397541	7/8/2008	
Apparatus and method for measuring optical characteristics of an object	11/475,717	2/19/2000	7397562	7/8/2008	
Apparatus and method for measuring color	11/523,763	2/20/2000	7400404	7/15/2008	
Apparatus and method for measuring optical characteristics of an object	11/085,934	2/21/2000	7403285	7/22/2008	
Apparatus and method for measuring optical characteristics of an object	11/827,439	2/22/2000	7538878	5/26/2009	
Method for preparing a dental prosthesis based on electronically determined image and color/shade data and based on telephone communication	11/510,494	2/23/2000	7682150	3/23/2010	
Apparatus and method for measuring optical characteristics of teeth	12/148,530	2/24/2000	7785103	8/31/2010	
Apparatus and method for measuring color	12/218,339	2/25/2000	8159666	4/17/2012	
n/a	13/506,386	4/16/2012		Pending	
n/a	13/597,024	8/28/2012		Pending	NOW USP 8,472,012
n/a	13/612,123	9/12/12		Pending	
n/a	13/604,420	9/5/2012		Pending	NOW USP 8,786,844
Apparatus and method for measuring optical characteristics of an object	12/661,419	3/15/2010		Pending	

Apparatus and method for measuring optical characteristics of an object	13/199,391	8/25/2011		Pending
Apparatus and method for measuring optical characteristics of an object	12/454,830	5/22/2009		Pending
Systems and methods for preparing dental restorations	11/374,446	3/13/2006		Abandoned
The device and method in order to measure the optical quality of the tooth	JP52463597	1/2/1997	JP4219981	2/4/2009
The device and method in order to measure the optical quality of the object	JP52463497	1/2/1997	JP3981154	9/26/2007
The device and method in order to measure the optical quality of the object	JP50736799	6/30/1998	JP4553990	9/29/2010
System and method for measuring optical characteristics of objects	JP2005208944	7/19/2005	JP4243263	3/25/2009
n/a	KR98-705070	6/30/98	KP 10-0432764	5/13/04
Light to Frequency Converter with Electronic Bias and Adjustable Gain	61852136	3/15/13		