

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4518584

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MADICO, INC.	11/10/2015
RECEIVING PARTY DATA		
Name:	OPTODOT CORPORATION	
Street Address:	100 TRADECENTER, SUITE G-700	
City:	WOBURN	
State/Country:	MASSACHUSETTS	
Postal Code:	01801	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15492126
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ATTORNEY DOCKET NUMBER:	65213/79	
NAME OF SUBMITTER:	DEXTER T. CHANG	
SIGNATURE:	/Dexter T. Chang/	
DATE SIGNED:	07/25/2017	
Total Attachments: 6		
source=Assignment-pat-37702-410Mad-Opt#page1.tif		
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source=Assignment-pat-37702-410Mad-Opt#page5.tif		
source=Assignment-pat-37702-410Mad-Opt#page6.tif		

ASSIGNMENT

WHEREAS, Madico, Inc., a corporation organized and existing under and by virtue of the laws of the Commonwealth of Massachusetts, doing business at 64 Industrial Parkway, Woburn, Massachusetts 01801, hereinafter "Madico," is the current Assignee of a patent portfolio directed to battery separator technology (Patent Portfolio), and

WHEREAS, Optodot Corporation, a corporation organized and existing under and by virtue of the laws of the Commonwealth of Massachusetts, doing business at 100 TradeCenter, Suite G-700, Woburn, Massachusetts 01801, hereinafter "Optodot", is desirous of acquiring the entire right, title and interest in and to said Patent Portfolio.

Said Patent Portfolio includes all of the patents and patent applications previously licensed to Madico by Optodot in an agreement titled "Agreement for Consultant Services and Patent License," dated effective June 1, 2011 (the "Prior Agreement"). The Patent Portfolio also includes additional battery separator applications and patents filed by Madico during the term of the Prior Agreement and its subsequent amendments thereto. The patents and patent applications being assigned are attached hereto as Appendices A, B, C and D.

NOW THEREFORE, for and in consideration of valuable consideration, in hand paid to Madico, the receipt and sufficiency whereof is hereby acknowledged, Madico, has sold, assigned and transferred and do hereby sell, assign and transfer unto Optodot, its successors and assigns, the entire right, title and interest in and to the Patent Portfolio. The Patent Portfolio includes the patents and patent applications listed in Appendices A, B, C & D, attached hereto and includes the right to apply for any Letters Patent in the United States of America and in any and all foreign countries on said invention, and any and all other applications for Letters Patent on said invention, in whatsoever countries, including all provisional, divisional, renewal, substitution, continuation, continuation-in-part, reissue, re-examination and Convention applications based upon said invention or upon said application, to the full end of the term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention, said application and said Letters Patent, the same to be held and enjoyed by Optodot, its successors and assigns, the same as it would have been held and enjoyed by Madico if this assignment and sale had not been made.

Madico hereby authorizes Optodot to file patent applications in any or all countries on any or all of said invention in the name of Optodot, or otherwise as Optodot may deem advisable, under any International Convention or otherwise.

And Madico hereby authorizes the Commissioner of Patents of the United States and the empowered officials of all other governments to issue or transfer all said Letters Patent to Optodot, as assignee of Madico's entire right, title and interest therein or otherwise as Optodot may direct in accordance with this instrument of assignment.

Madico hereby represents and warrants that there are no rights or interests inconsistent with the rights and interests granted herein and that Madico will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interest granted herein, and that Madico has sold, assigned and transferred and do hereby sell, assign and transfer unto Optodot, its successors and assigns, any further documents or instruments and do any and all further acts that may reasonably be deemed necessary by Optodot to enable Optodot Corporation, its successors or assigns, to file applications for the invention in any

country where it may elect to file such applications, and that may be necessary to vest in Optodot, its successors and assigns, the title herein conveyed or intended so to be, and to enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

And Madico further covenants and agrees, that Madico, its executors and administrators, will at any time and for reasonable and customary compensation only, upon request, communicate to Optodot, its successors and assigns, any facts relating to the invention and the improvements contained therein and the history thereof, known to Madico or its executors and administrators, and that it will testify as to the same in any interference or other litigation when requested so to do by Optodot or its successors and assigns.

IN TESTIMONY WHEREOF, I, Paul Moynihan, have hereunto set my hand and seal this 10th day of November, 2015.

Paul Moser

Paul Moynihan
Chief Financial Officer, Madico, Inc.

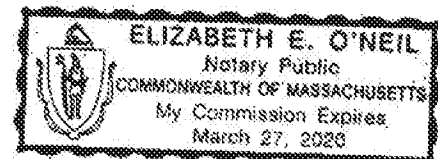
COMMONWEALTH OF MASSACHUSETTS)
)
COUNTY OF MIDDLESEX)

On this 10th day of November, 2015, before me personally appeared **Paul Moynihan**, before me known and known to me to be the individual described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same voluntarily and for the purpose therein set forth.

John C. L.

NOTARY PUBLIC

My Commission Expires: _____



Appendix A

Sion Ref. Nos.	Issued Patent Nos.	Application Ser. Nos.	Date Filed	Expiration Date
MT-0007.0	US 6,153,337		Dec. 19, 1997	Dec. 19, 2017
MT-0007.1	US 6,396,545		Dec. 17, 1998	Dec. 19, 2017
MT-0018.1	US 6,183,901		Sep. 21, 1999	Dec. 17, 2018
MT-0018.0	US 6,194,090		Dec. 17, 1998	Dec. 17, 2018
MT-0018.2	US 6,277,514		Nov. 23, 1999	Dec. 17, 2018
MT-0018.3	US 6,410,182		Aug. 18, 2000	Dec. 17, 2018
MT-0018.4	US 6,423,444		Nov. 30, 2000	Dec. 17, 2018
MT-0007.0JP		JP 2000-525937	Dec. 17, 1998	Dec. 17, 2018
MT-0007.0KR		KR 7006772/2000	Dec. 17, 1998	Dec. 17, 2018
MT-0018.1CN	ZL998157690		Dec. 16, 1999	Dec. 16, 2019
MT-0018.2CN		CN 99815868.2	Dec. 16, 1999	Dec. 16, 2019
MT-0018.2EP	FR 1151486	EP 99966420.4	Dec. 16, 1999	Dec. 16, 2019
MT-0018.2EP	DE69908189	EP 99966420.4	Dec. 16, 1999	Dec. 16, 2019
MT-0018.2EP	UK 1151486	EP 99966420.4	Dec. 16, 1999	Dec. 16, 2019
MT-0018.2JP		JP 2000-588826	Dec. 16, 1999	Dec. 16, 2019
MT-0031.3	US 7,066,971		Nov. 21, 2000	Jun. 9, 2020
MT-0031.4	US 7,061,142		Nov. 21, 2000	Jun. 9, 2020

Sion Ref. Nos.	Issued Patent Nos.	Application Ser. Nos.	Date Filed	Expiration Date
MT-0024.1	US 6,488,721		Jun. 9, 2000	Jun. 9, 2020
MT-0024.2	US 6,497,780		Jun. 9, 2000	Aug. 26, 2020*
MT-0024.3	US 7,160,603		Dec. 20, 2002	Aug. 26, 2020**
MT-0024.4	Abandoned	10/767,631	Jan. 29, 2004	
MT-0024.5		11/650,674	Jan. 8, 2007	
MT-0024.6		11/650,673	Jan. 8, 2007	
MT-0024.7		11/650,675	Jan. 8, 2007	

*The term of this patent is extended under 35 U.S.C. 154(b) by 78 days.

**The term of this patent will expire 20 years from the earliest priority date of June 9, 2000, subject to any adjustments under 35 U.S.C. 154(b). The patent term extension needs to be confirmed as to if it will be 78 days, the same as the '780 patent from which it is a divisional, or 351 days, the adjustment given on the front page of the granted patent.

Appendix B:
Optodot Patents 1-6

Medico Docket No.	Optodot Docket No.	Technology Segment	Country	Status	App. Date	App. No.	Pub. Date	Pub. No.	Grant Date	Patent No.
TYPE: LITHIUM BATTERIES UTILIZING NANOPOROUS SEPARATOR LAYERS										
MA05-714CN	1141-097CN	Advanced Separator	China P.R.	Granted	5/26/2010	201080031824.9	5/16/2012	CN102460775A	5/13/2015	ZI.201080031834.9
MA05-714EP	1141-097EP	Advanced Separator	Europe	Inactive	5/26/2010	10788925.3	4/4/2012	2436963		
MA05-714JP	1141-097JP	Advanced Separator	Japan	Filed	5/26/2010	2010-090300.9	10/7/2015	2928004		
MA05-714KR	1141-097KR	Advanced Separator	Korea	Filed	5/26/2010	2012-513044			7/31/2015	5782634
MA05-714US	1141-097US	Advanced Separator	US	Allowed	5/26/2010	137402748	3/15/2012	2012-004399		
MA05-714WO	1141-097WO	Advanced Separator	PCT	Inactive	5/26/2010	PCT/US2010/001536	12/2/2010	WO 2010/138177		
TYPE: BATTERIES UTILIZING CATHODE COATINGS DIRECTLY ON NANOPOROUS SEPARATORS										
MA05-715US	1141-098US	Advanced Separator	US	Granted	5/26/2010	137402740	3/15/2012	2012-004404	5/25/2015	9118947
MA05-715WO	1141-098WO	Advanced Separator	PCT	Inactive	5/26/2010	PCT/US2010/001537	12/2/2010	WO 2010/138178		
TYPE: LITHIUM BATTERIES UTILIZING ANODE COATINGS DIRECTLY ON NANOPOROUS SEPARATORS										
MA05-716CN	1141-099CN	Advanced Separator	China P.R.	Granted	5/26/2010	201080031835.3	5/16/2012	CN102460776A	4/29/2015	ZI.201080031835.3
MA05-716EP	1141-099EP	Advanced Separator	Europe	Filed	5/26/2010	201510226395.1				
MA05-716JP	1141-099JP	Advanced Separator	Japan	Filed	5/26/2010	10788927.9	4/4/2012	2436964		
MA05-716KR	1141-099KR	Advanced Separator	Korea	Filed	5/26/2010	2012-513045				
MA05-716US	1141-099US	Advanced Separator	US	Filed	5/26/2010	137402762	3/15/2012	2012-007072	2/26/2015	9062182
MA05-716WO	1141-099WO	Advanced Separator	PCT	Inactive	5/26/2010	PCT/US2010/001539	12/2/2010	WO 2010/138179		
TYPE: BATTERIES UTILIZING ELECTRODE COATINGS DIRECTLY ON NANOPOROUS SEPARATORS										
MA05-717AU	1141-099AU	Advanced Separator	Australia	Granted	5/26/2010	2010254533			7/3/2014	2010254533
MA05-717CA	1141-099CA	Advanced Separator	Canada	Allowed	5/26/2010	2403999				
MA05-717CN	1141-099CN	Advanced Separator	China P.R.	Filed	5/26/2010	201080031836.5	5/16/2012	CN102460772A		
MA05-717CNDIV	1141-099CNDIV	Advanced Separator	China P.R.	Filed	5/26/2010	201510226395.1				
MA05-717JP	1141-099JP	Advanced Separator	Japan	Filed	5/26/2010	2012-513043				
MA05-717JP JF	1141-099JP JF	Advanced Separator	Japan	Filed	5/26/2010	2015-003192				
MA05-717EP	1141-099EP	Advanced Separator	Europe	Filed	5/26/2010	10788924.6	4/4/2012	2436961		
MA05-717KR	1141-099KR	Advanced Separator	Korea	Filed	5/26/2010	10-2011-70302031				
MA05-717RU	1141-099RU	Advanced Separator	Russia	Granted	5/26/2010	2011152902	7/10/2013	19	4/27/2014	2513988
MA05-717US	1141-099US	Advanced Separator	US	Granted	5/26/2010	137402795	5/10/2012	2012-011829	5/23/2015	9065120
MA05-717WO	1141-099WO	Advanced Separator	PCT	Inactive	5/26/2010	PCT/US2010/001535	12/2/2010	WO 2010/138170		
TYPE: SEPARATORS FOR ELECTROCHEMICAL CELLS										
MA05-718CN	1141-099USCN	CSP, basis for Advanced Separator	US	Filed	11/6/2014	147534091	3/5/2015	2015-0064572		
MA05-718US	1141-099US	CSP, basis for Advanced Separator	US	Granted	4/12/2007	117652948	8/16/2007	2007-0190427	11/11/2014	8883354
TYPE: SAFETY SHUTDOWN SEPARATORS										
MA05-719US	1141-099US	CSP, basis for Advanced Separator	US	Granted	4/12/2007	11766671			6/53/2015	9070954

PATENT

Appendix C:
Optodot/Siml Patent 7

Madico Doctet No.	Optodot Doctet No.	Technology Segment	Country	Status	App. Date	App. No.	Pub. Date	Pub. No.	Grant Date	Patent No.
TYPE SEPARATORS FOR ELECTROCHEMICAL CELLS										
COPI 734CN	U41.043CN	CSP, base for Advanced Separator	China P.R.	Filed	7/16/2013	201180035700.5				
COPI 734JP	U41.043JP	CSP, base for Advanced Separator	Japan	Filed	7/16/2013	2012-530699				
COPI 734KR	U41.043KR	CSP, base for Advanced Separator	Korea	Filed	7/16/2013	10-2013-7003963				
COPI 734US	U41.043US	CSP, base for Advanced Separator	U.S.	Filed	7/16/2013	13/744702	7/4/2013	US2013/0371300		
COPI 734WO	U41.043WO	CSP, base for Advanced Separator	PCT	transive	7/16/2013	PCT/US2011/001274	1/26/2013	WO/2012/011944		

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Madico DocId: No.	Opacitor DocId: No.	Technology Segment	Country	Status	App. Date	App. No.	Pub. Date	Pub. No.	Grant Date	Patent No.
TITLE SEPARATORS FOR ELECTROCHEMICAL CELLS										
	7141.080P	Advanced Separator	US	Filed	4/15/2015	02/174,833				
TITLE SEPARATORS FOR ELECTROCHEMICAL CELLS										
	7141.051P	Advanced Separator	US	Filed	7/9/2015	02/231,539				