

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GS ENERGY CORPORATION	07/17/2015
RECEIVING PARTY DATA	
Name:	APPLIED MATERIALS, INC.
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City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 9	
Property Type	Number
Patent Number:	8389144
Application Number:	12993820
Application Number:	12670576
Application Number:	12952887
Application Number:	13992635
Application Number:	14365904
Application Number:	14366911
Application Number:	14406144
Application Number:	15172769
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NAME OF SUBMITTER:	DAVID A. JAKOPIN

PATENT

SIGNATURE:	/David A. Jakopin/
DATE SIGNED:	09/19/2016
Total Attachments: 7 source=GSE to AMAT Assignment#page1.tif source=GSE to AMAT Assignment#page2.tif source=GSE to AMAT Assignment#page3.tif source=GSE to AMAT Assignment#page4.tif source=GSE to AMAT Assignment#page5.tif source=GSE to AMAT Assignment#page6.tif source=GSE to AMAT Assignment#page7.tif	

EXHIBIT B

Patent Assignment

This Assignment is made effective as of the date signed below by and between **GS Energy Corporation**, a company organized under the laws of Korea with a place of business at GS Tower 37F, 508, Nonhyun-ro, Gangnam-gu, Seoul 135-985, Korea ("**Assignor**") and **Applied Materials, Inc.**, a Delaware corporation with a place of business at 3050 Bowers Avenue, Santa Clara, CA 95054 ("**Assignee**").

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

1. Assignor does hereby sell, assign, transfer and convey to Assignee its entire right, title and interest in and to any and all of the following (collectively, the "**Patent Rights**"):
 - (a) all patents and patent applications listed in Appendix A (each, an "**Assigned Patent**") and the inventions disclosed and claimed therein;
 - (b) all rights to apply in any and all countries of the world for patents, certificates of invention, utility models, or other governmental grants of rights with respect to any Assigned Patent or invention disclosed and claimed therein, including the right to apply for patents pursuant to any convention, treaty, agreement or understanding;
 - (c) each resulting patent, patent application, and other governmental grant of rights issued on any Assigned Patent, including, without limitation, each related provisional, continuation, continuation-in-part, divisional, reexamination, ~~reissue~~, or substitute of any of the foregoing in any jurisdiction anywhere in the world (for purposes of this clause, "related" means, with respect to any patent, patent application, or other governmental grant of rights, that such patent, patent application, or other governmental grant of rights is entitled to claim the benefit of priority from an Assigned Patent, or that an Assigned Patent is entitled to claim the benefit of priority from such patent, patent application, or other governmental grant of rights); and
 - (d) All accrued causes of action, and the right to sue and recover damages, for future or past infringements of the Patent Rights.
2. Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.
3. Assignor hereby authorizes and requests the attorney or agent of record to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the respective patent office or governmental agency in each jurisdiction for recordation or other official recognition.

Signature page follows

CAF
9/2/15

By: _____



GS Energy Corporation

Name: **W. B. Rha**

CEO

Title: **GS Energy Corporation**

678, Yeoksan-dong, Gangnam-gu, Seoul 135-885, Korea

Date: _____

17 July 2015



CUF 95m/15

Appendix A to Patent Assignment

Country	Patent No.	Issue Date	Application No.	Application Date	Title
KR	KR 10-0461844	2004.12.04	10-2002-0020700	2002.04.16	다층박막 소자용 출력기판
KR	KR 10-0656992	2006.12.06	10-2005-0013245	2005.02.17	고주파 스퍼터링을 이용한 리튬 박막전지용 리튬코발트산화물 박막양극의 제조방법
KR	KR 10-0782162	2007.11.28	10-2006-0053187	2006.06.13	전고상 박막전지를 구비하는 배속전지
KR	KR 10-0814145	2008.03.10	10-2005-0043546	2005.05.24	공속기판상에 구현되어 구부러짐이 가능한 박막전지
KR	KR 10-0832847	2007.12.21	10-2007-0135017	2007.12.21	평판화 유기 박막 및 키포알 유기 박막을 포함하는 다층 동지막
KR	KR 10-0836256	2008.06.02	10-2006-0062196	2006.07.03	엘비더를유도체 리튬 이온 전도성 산화물 고체 전해질
KR	KR 10-0962032	2010.05.31	10-2007-0128221	2007.12.11	전극의 표면적 및 전극과 전해질의 접촉면적을 증가시킨 박막형 전지 및 그의 제조방법
KR	KR 10-0964017	2010.06.08	10-2007-0129639	2007.12.13	전극의 표면적 및 전극과 전해질의 접촉면적을 증가시킨 박막형 전지 및 그의 제조방법
KR	KR 10-0970144	2010.07.07	10-2007-0080357	2007.08.09	휴대용 박막전지 충전기
KR	KR 10-0982468	2010.09.09	10-2009-0038994	2008.04.25	고용량 박막전지 모듈 및 그 제조방법
KR	KR 10-1010716	2011.01.18	10-2008-0072487	2008.07.24	비전도성 디젯을 사용하는 스퍼터링에 의한 세라믹 박막의 증착방법 및 그를 위한 장치
KR	KR 10-1047865	2011.07.04	10-2008-0047297	2008.05.21	고체전해질, 이의 제조방법 및 이를 포함하는 박막전지
KR	KR 10-1069256	2011.09.26	10-2008-0035137	2008.04.16	박막전지 제조방법

Country	Patent No.	Issue Date	Application No.	Application Date	Title
KR	KR 10-1069257	2011.09.26	10-2009-0049158	2009.06.03	세도우 마스크의 사용을 최소화한 박막전지의 제조방법
KR	KR 10-1131555	2012.03.22	10-2009-000585	2009.10.22	박막 전지 제조용 패턴 마스크, 박막전지 및 제조방법
KR	KR 10-1146616	2012.05.03	10-2009-0058990	2009.06.30	박막전지 및 박막전지의 전극 단자를 접합하는 방법
KR	KR 10-1154545	2012.06.01	10-2009-0113451	2009.11.23	형상된 전류 집전 효율을 갖는 박막전지
KR	KR 10-1161154	2012.06.25	10-2010-0102525	2010.10.20	기관 내경형 단자를 포함하는 박막전지 및 이를 이용하여 제조된 작동형 박막전지 모듈
KR	KR 10-1169977	2012.07.25	10-2010-0031314	2010.04.06	수명특성이 향상된 박막전지
KR	KR 10-1197199	2012.10.29	10-2011-0018232	2011.02.28	박막전지 제조 방법 및 그 방법에 의하여 제조된 플렉서블 박막전지
KR	KR 10-1200306	2012.11.06	10-2010-0031468	2010.04.06	물극성능이 개선된 박막전지 및 이의 제조방법
KR	KR 10-1210370	2012.12.04	10-2011-0058750	2011.06.16	반고 기판을 이용한 박막전지용 양극 형성 방법 및 그 방법으로 제조된 박막전지
KR	KR 10-1210372	2012.12.04	10-2010-0125474	2010.12.09	박막전지
KR	KR 10-1218215	2012.12.27	10-2010-0136992	2010.12.28	박막전지 패키지
KR	KR 10-1259442	2013.04.24	10-2011-0065516	2011.07.01	박막 전지 패키지용 방법 및 박막 전지 패키지 제조 장치
KR	KR 10-1260025	2013.04.25	10-2011-0064236	2011.06.30	박막전지용 양극 형성 방법 및 그 방법으로 제조된 박막전지
KR	KR 10-1266810	2013.05.15	10-2011-0051923	2011.05.31	대량전지 결합형 박막전지 패키지

Country	Patent No.	Issue Date	Application No.	Application Date	Title
KR	KR 10-1286620	2013.07.02	10-2011-0085948	2011.08.26	박막전지 및 그 제조방법
KR	KR 10-1288532	2013.07.16	10-2011-0087889	2011.08.31	박막전지 패키지
KR	KR 10-1292846	2013.07.29	10-2011-0065517	2011.07.01	박막 전지 제조용 패턴 마스크 및 이의 제조 방법, 이를 사용한 박막 전지를 고체 전해질 제조 방법
KR	KR 10-1293177	2013.07.30	10-2012-0013492	2012.02.07	가요성 하이브리드 전지
KR	KR 10-1319523	2013.10.11	10-2011-0137067	2011.12.19	박막 전지 모듈, 박막 전지 패키지, 박막 전지 패키지 제조 장치 및 박막 전지 패키지 제조 방법
KR	KR 10-1325936	2013.10.31	10-2012-0012493	2012.02.07	박막전지의 보호층을 라미네이팅 장치 및 그 방법
KR	KR 10-1368323	2014.02.21	10-2011-0136049	2011.12.16	기판 표면 처리를 통하여 전지 성능이 향상된 박막전지 및 그 제조 방법
KR	KR 10-1383804	2014.04.03	10-2012-0061452	2012.06.08	직층 박막 전지
JP	JP 05346953	8/23/2013	2010-539272	04/03/2008	Multilayer Sealing Film Having Planarizing Organic Thin Film And Conformal Organic Thin Film
JP	JP 05608643	09/05/2014	2011-510404	08/25/2008	Solid Electrolyte, Fabrication Method Thereof And Thin Film Battery Comprising The Same
JP	JP 05178832	01/18/2013	2010-518122	07/23/2008	Method For Depositing Ceramic Thin Film By Sputtering Using Non-Conductive Target
US	US 8,389,144	03-05-2013	12/308213	12-09-2008	Reserve Battery Having All Solid State Thin Film Battery

Country	Publ. No.	Publ. Date	Application No.	Application Date	Title
CN	CN104040759A		201280062301.6	2-Nov-2012	Thin Film Battery Having Improved Battery Performance Through Substrate Surface Treatment And Method For Manufacturing Same
CN	CN104040753A		201280063125.8	2-Nov-2012	Thin Film Battery Module, Thin Film Battery Package, Thin Film Battery Package Manufacturing Device, And Thin Film Battery Package Manufacturing Method
CN	CN104550632A		201380030221.7	14-May-2013	Laminated Thin Film Battery
EP	EP2728643	07.05.2014	11868971.0	25.11.2011	Method For Packaging A Thin Film Battery And Apparatus For Manufacturing A Thin Film Battery Package
EP	EP2650942	16.10.2013	11846237.3	25.11.2011	Thin Film Battery Package
EP	EP2793298	22.10.2014	12856644.5	02.11.2012	Thin Film Battery Having Improved Battery Performance Through Substrate Surface Treatment And Method For Manufacturing Same
EP	EP2797136	29.10.2014	12859847.1	02.11.2012	Thin Film Battery Module, Thin Film Battery Package, Thin Film Battery Package Manufacturing Device, And Thin Film Battery Package Manufacturing Method
EP	EP2860793	15.04.2015	13800027.8	14.05.2013	Laminated Thin Film Battery
JP			2010-260659	11/22/2010	Thin Film Battery Having Improved Efficiency Of Collecting Electric Current
JP			2014-511275	11/25/2011	Method For Packaging A Thin Film Battery And Apparatus For Manufacturing A Thin Film Battery Package
JP			2013-543091	11/25/2011	Thin Film Battery Package
JP			2014-547084	11/02/2012	Thin Film Battery Having Improved Battery Performance Through Substrate Surface Treatment And Method For Manufacturing Same
JP			2014-548648	11/02/2012	Thin Film Battery Module, Thin Film Battery Package, Thin Film Battery Package Manufacturing Device, And Thin Film Battery Package Manufacturing Method
JP			2015-515933		Laminated Thin Film Battery

Country	Publ. No.	Publ. Date	Application No.	Application Date	Title
US	US 2010/0272945	10-28-2010	12/809539	06-18-2010	Multilayer Sealing Film Having Planarizing Organic Thin Film And Conformal Organic Thin Film
US	US 2011/0070503	03-24-2011	12/993820	11-19-2010	Solid Electrolyte, Fabrication Method Thereof And Thin Film Battery Comprising The Same
US	US 2010/0264017	10-21-2010	12/670576	06-27-2010	Method For Depositing Ceramic Thin Film By Sputtering Using Non-Conductive Target
US	US 2011/0123862	05-26-2011	12/952887	11-23-2010	Thin Film Battery Having Improved Efficiency Of Collecting Electric Current
US	US 2014/0101929	04-17-2014	14/118691	11-19-2013	Method For Packaging A Thin Film Battery And Apparatus For Manufacturing A Thin Film Battery Package
US	US 2013/0280591	10-24-2013	13/992635	06-07-2013	Thin Film Battery Package
US	US 2014/0356694	12-04-2014	14/365904	06-16-2014	Thin Film Battery Having Improved Battery Performance Through Substrate Surface Treatment And Method For Manufacturing Same
US	US 2014/0370364	12-18-2014	14/366911	06-19-2014	Thin Film Battery Module, Thin Film Battery Package, Thin Film Battery Package Manufacturing Device, And Thin Film Battery Package Manufacturing Method
US	US 2015/0125731	05-07-2015	14/406144	12-05-2014	Laminated Thin Film Battery