

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7327886

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
3M INNOVATIVE PROPERTIES COMPANY	11/15/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JOHNSON MATTHEY PUBLIC LIMITED COMPANY
<b>Street Address:</b>	25 FARRINGDON STREET
<b>Internal Address:</b>	5TH FLOOR
<b>City:</b>	LONDON
<b>State/Country:</b>	ENGLAND
<b>Postal Code:</b>	EC4A 4AB
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17141652
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)568-3439
<i>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.</i>	
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<b>ATTORNEY DOCKET NUMBER:</b>	032891.000449
<b>NAME OF SUBMITTER:</b>	DENISE MARVEL
<b>SIGNATURE:</b>	/Denise Marvel/
<b>DATE SIGNED:</b>	05/12/2022
<b>Total Attachments: 7</b>	
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## CONFIRMATORY INTELLECTUAL PROPERTY ASSIGNMENT

This Confirmatory Intellectual Property Assignment (this "Assignment") is dated November 15, 2019 by and among:

- (1) 3M INNOVATIVE PROPERTIES COMPANY, a corporation incorporated under the laws of Delaware, whose address and principal place of business is at 3M Center, Saint Paul, Minnesota, USA 55144 ("3M IPC");
- (2) 3M COMPANY, a corporation incorporated under the laws of Delaware, whose address and principal place of business is 3M Center, Saint Paul, Minnesota, U.S.A. 55144 ("3M" and together with 3M IPC, the "Assignors" and each, the "Assignor"); and
- (3) JOHNSON MATTHEY PUBLIC LIMITED COMPANY, a company incorporated and registered in England with company number 33774, the registered office of which is at 5<sup>th</sup> Floor, 25 Farringdon Street, London, EC4A 4AB, England (the "Assignee").

WHEREAS, pursuant to the Patent and Know-How Purchase Agreement, dated effective as of November 15, 2019, by and among the Assignors and the Assignee (the "Agreement"), the Assignors assigned to the Assignee the patents and patent applications listed in Schedule 1 hereto (the "Patents") including all rights, powers and benefits arising therefrom, including, without limitation, any continuation application, divisional application or other application claiming priority from any of the patents.

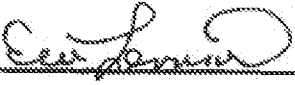
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignors hereby confirm having assigned, transferred, conveyed, and delivered to the Assignee, its successors and assignees, effective as of November 15, 2019, all right, title and interest of the Assignors in and to the Patents and any continuation application, divisional application or other application claiming priority from any of the patents; the same to be held by the Assignee for its own use and for the use of its successors, assignees and other legal representatives to the end of the term or terms for which the Patents are issued, granted, reissued or extended, as fully and entirely as the same would have been held by the Assignors.

[SIGNATURE PAGE FOLLOWS]


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

ASSIGNORS:

3M INNOVATIVE PROPERTIES COMPANY

By:   
Name: ERIK LEVANSON  
Position: ASST. CHIEF IP COUNSEL

3M COMPANY

By:   
Name: Robert Messner  
Position: Technical Director

ASSIGNEE:

JOHNSON MATTHEY PUBLIC COMPANY LIMITED

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Position: \_\_\_\_\_

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

**ASSIGNORS:**

**3M INNOVATIVE PROPERTIES COMPANY**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

**3M COMPANY**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

**ASSIGNEE:**

**JOHNSON MATTHEY PUBLIC COMPANY LIMITED**

By: R. MacLeod

Name: R. MacLeod

Position: DIRECTOR

# SCHEDULE 1 - TRANSFERRED PATENTS

3M Family	Country	Title	Official Number
54599	United States	AMORPHOUS ELECTRODE COMPOSITIONS	6,664,004
	Taiwan		544972
	China		01806566.X
	Taiwan		501299
	China		02812174.0
	Korea		10-0689000
	United States		6699336
55941	United States	COMPOSITE TREATMENT WITH LIPO3	6492061
58758	United States	MULTI-PHASE, SILICON-CONTAINING ELECTRODE FOR A LITHIUM-ION BATTERY	7498100
	Korea		10-1120692
	Japan		4865556
	Japan		5616298
	China		200480022796.5
59558	United States	POLYIMIDE ELECTRODE BINDERS	7972725
60845	United States	ALLOY COMPOSITIONS FOR LITHIUM ION BATTERIES	7767349
	Taiwan		1393286
	Korea		10-1281359
	Japan		5350789
	China		200680027331.8
60846	United States	ALLOY COMPOSITIONS FOR LITHIUM ION BATTERIES	7851085
	Taiwan		1404805
	Korea		10-1298810
	China		200680027313.X
60970	United States	ALLOY COMPOSITION FOR LITHIUM ION BATTERIES	7871727
	Taiwan		1389370
	Korea		10-1347005
	Japan		5345844
	China		200680027314.4
61389	United States		7906238

	United States	SILICON-CONTAINING ALLOYS USEFUL AS ELECTRODES FOR LITHIUM-ION BATTERIES	8071238
	Taiwan		I397206
	Korea		10-1323974
	Japan		5356826
	Germany		602006052874.4
	France		1974408
	China		200680047773.9
65465	United States	LOW ENERGY MILLING METHOD, LOW CRYSTALLINITY ALLOY, AND NEGATIVE ELECTRODE COMPOSITION	8287772
	Korea		10-2011-7029655
	Japan		6230232
	Europe		2429744
	China		201080030255.2
65574	United States	METHOD OF MAKING TIN-BASED ALLOYS FOR NEGATIVE ELECTRODE COMPOSITIONS	8257864
	United States		8586240
66114	United States	COMPOSITE NEGATIVE ELECTRODE MATERIALS	8753545
	Taiwan		I568064
	Japan		6278600
	Europe		2543097
	China		201180012122.7
74025	Germany	ELECTRODE COMPOSITION, ELECTROCHEMICAL CELL AND METHOD OF MAKING ELECTROCHEMICAL CELLS	602014009076.1
	France		3005450
	Europe		3005450
	China		201480029662.X
75208	United States	ANODE MATERIALS FOR LITHIUM ION BATTERIES AND METHODS OF MAKING AND USING SAME	2018-0076445
	Korea		2017-0129817
	Europe		3271958
	China		107431191
75209	United States	ANODE COMPOSITIONS FOR RECHARGEABLE BATTERIES AND METHODS OF MAKING SAME	10050260
	Korea		2017-0015918
75511	United States	ANODE MATERIALS FOR LITHIUM ION BATTERIES AND METHODS OF MAKING AND USING SAME	2018-0337390
	Taiwan		104139982
	Korea		2017-0086114

	Japan		2017-537449
	Europe		3227953
	China		107004910
76888	United States	ANODE MATERIALS FOR LITHIUM ION BATTERIES AND METHODS OF MAKING AND USING SAME	2018-0375095
	Taiwan		105142380
	Korea		10-2018-0088912
	Japan		2018-538674
	Europe		3394920
	China		108432006
76940	United States	SILICON BASED MATERIALS FOR AND METHODS OF MAKING AND USING SAME	2019-0006666
	Korea		10-2018-0097594
	Japan		2018-533665
	China		108475761
77365	United States	ANODE MATERIALS FOR LITHIUM ION BATTERIES AND METHODS OF MAKING AND USING SAME	2018-0175390
78489	United States	GRAPHITIC MATERIALS AND METHODS OF MAKING SAME	2018-0183061
78795	United States	MATERIALS FOR LITHIUM-ION ELECTROCHEMICAL CELLS AND METHODS OF MAKING AND USING SAME	16/609344
	PCT		2018/211363
79313	United States	MATERIALS FOR ELECTROCHEMICAL CELLS AND METHODS OF MAKING AND USING SAME	16/609332
	PCT		2018/213160
80481	United States	SI-TI-N ALLOYS FOR LI-ION BATTERIES	62/656414
	PCT		2019/198052
75205	Korea	ELECTROLYTE SOLUTIONS FOR RECHARGEABLE BATTERIES	2017-0057349
	Japan		2017-528885
75870	Taiwan	ELECTROCHEMICAL CELLS THAT INCLUDE LEWIS ACID: LEWIS BASE COMPLEX ELECTROLYTE ADDITIVES	105103602
	Korea		2017-0113601
	Japan		2018-504759
78938	Taiwan	ELECTROLYTE SOLUTIONS AND ELECTROCHEMICAL CELLS CONTAINING SAME	106120144
	United States		2019-0140309
	China		109314272



78667	Taiwan	ELECTROLYTE SOLUTIONS AND ELECTROCHEMICAL CELLS CONTAINING SAME	106135832
80302	United States	ELECTROCHEMICAL CELLS	2019-0190060
62223	United States	FLUORINATED COMPOUNDS FOR USE IN LITHIUM BATTERY ELECTROLYTES	9406977
	China		201110411052.4
	China		200780047807.9
	Japan		5671099
	Korea		10-1646785
	United States		8435679
67623	United States	LITHIUM-ION ELECTROCHEMICAL CELLS THAT INCLUDE FLUOROCARBON ELECTROLYTE ADDITIVES	9455472
	China		201280026782.5
	Germany		602012033698.6
	France		2719009
	Japan		6054956