

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4711854

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|---|-----------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JAMES W. MARSHALL | 10/27/2017 |
| ANDREW JOHN TAYLOR | 10/30/2017 |
| RECEIVING PARTY DATA | |
| Name: | MARS, INCORPORATED |
| Street Address: | 6885 ELM STREET |
| City: | MCLEAN |
| State/Country: | VIRGINIA |
| Postal Code: | 22101-3883 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15557387 |
| CORRESPONDENCE DATA | |
| Fax Number: | (703)448-9678 |
| <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> | |
| Phone: | 703-821-4900 |
| Email: | mars.patents@effem.com |
| Correspondent Name: | MARS, INCORPORATED |
| Address Line 1: | 6885 ELM STREET |
| Address Line 4: | MCLEAN, VIRGINIA 22101-3883 |
| ATTORNEY DOCKET NUMBER: | WAL0400 PCT US |
| NAME OF SUBMITTER: | THERESA L. SHEARIN |
| SIGNATURE: | /Theresa L. Shearin/ |
| DATE SIGNED: | 11/30/2017 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |
| Total Attachments: 4 | |
| source=WAL0400 PCT US Fully Executed Combined Oath and Assignment#page1.tif | |
| source=WAL0400 PCT US Fully Executed Combined Oath and Assignment#page2.tif | |
| source=WAL0400 PCT US Fully Executed Combined Oath and Assignment#page3.tif | |
| source=WAL0400 PCT US Fully Executed Combined Oath and Assignment#page4.tif | |

COMBINED OATH AND ASSIGNMENT

WHEREAS, I/we

James W. Marshall
Andrew John Taylor

has(have) made the invention(s) described in patent application(s) entitled:

ULTRA HIGH RESOLUTION MASS SPECTROMETRY AND METHODS OF USING THE SAME

Mars Docket Number: WAL0400 PCT US

Further identified as:

US Patent Application number: 15/557,387

Filing or 371(c) Date: March 11, 2016

And is a 371 of, and/or claims priority to/benefit of:

| Application Number | Filing Date | Filing Country |
|--------------------|-------------------|----------------|
| 62/132,492 | March 12, 2015 | US |
| 62/269,897 | December 18, 2015 | US |
| PCT/US16/022149 | March 11, 2016 | PCT |

I/WE HEREBY DECLARE THAT:

i) THE ABOVE-IDENTIFIED APPLICATION(S) WAS/WERE MADE OR AUTHORIZED TO BE MADE BY ME/US,

ii) I/WE BELIEVE THAT I/WE AM/ARE THE ORIGINAL INVENTOR OR AN ORIGINAL JOINT INVENTOR OF A CLAIMED INVENTION(S) IN THE APPLICATION(S),

iii) HEREBY ACKNOWLEDGE THAT ANY WILLFUL FALSE STATEMENT MADE IN THIS DECLARATION IS PUNISHABLE UNDER 18 USC 1001 BY FINE OR IMPRISONMENT OF NOT MORE THAN FIVE (5) YEARS, OR BOTH.

WHEREAS, **Mars, Incorporated** (hereinafter referred to as "**Mars**"), a corporation duly organized and existing under the laws of the State of Delaware, U.S.A., and having a principal office and place of business at 6885 Elm Street, McLean, Virginia, 22101-3883, U.S.A., desires to record a specific assignment to all rights, titles, and interests, which are assignable to the greatest extent permitted by laws, in and to the above-identified invention or inventions, and in and to any Letters Patent therefore in the United States of America and countries foreign thereto;

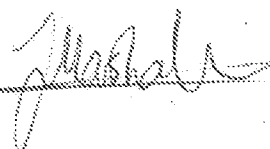
NOW THEREFORE, in consideration of One U.S. Dollar (US\$1.00) or equivalency in currencies other than U.S. Dollar, and other good and valuable consideration as well as awards and remunerations stipulated in separate agreements or policies under applicable law by each of us

received, the receipt of which is hereby acknowledged, I/we jointly and severally have sold and assigned, and hereby do sell and assign, to **Mars** its successors and assigns, the entire right, title, and interest (a) in the above-identified invention or inventions and all improvements and modifications thereof, (b) in the above-identified application(s), all provisional and non-provisional applications for patent upon which the above-identified application claims benefit or is claimed by such application, and all other applications for patent of the United States of America and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) in all Letters Patent which may issue from said applications in the United States of America and countries foreign thereto, and (d) in all divisions, reissues, continuations, continuations-in-part, conversions, and extensions of said applications and Letters Patent; and the undersigned inventor(s) hereby authorize and request the U.S. Commissioner of Patents and Trademarks to issue all United States Letters Patent on such invention or inventions included herein to **Mars** as assignee of the entire interest.

I/we further agree to communicate to **Mars**, its successors and assigns, or their representatives or agents all facts and information known or available to me/us relating to said invention or inventions, improvements and modifications including evidence for interference, reexamination, reissue, opposition, revocation, conversion, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested; testify in person or by affidavit as required by **Mars**, its successors and assigns, in any such proceeding in the United States of America or a country foreign thereto; execute and deliver, on request, all lawful papers including, but not limited to, original, provisional, non-provisional, divisional, continuation, continuation-in-part, substitute, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, and depositions; and provide all reasonable assistance to **Mars** its successors and assigns, in obtaining and enforcing proper protection for said invention or inventions, improvements and modifications under the intellectual property laws of the United States of America and countries foreign thereto.

I/we authorize any attorney of record for the above-identified application(s) to insert the application number(s) and filing date(s) of such application(s) onto this document, when available.

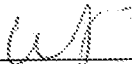
IN TESTIMONY WHEREOF, I/we has(have) executed this Assignment on the dates stated after my(our) respective signature(s).

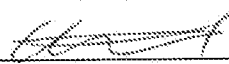
| Name | Signature (please sign in the box below) | Date | Address & Citizenship |
|-------------------|---|-------------|---|
| James W. Marshall |  | 27 Oct 2017 | c/o Mars Waltham Centre for Pet Nutrition, Freeby Lane, Waltham-on-the-Wolds, Metton Mowbray, Leicestershire LE14 4RT, United Kingdom Citizenship:GB |

FOR INVENTORS OUTSIDE THE UNITED STATES ONLY:

James W. Marshall, whose name and signature appear above, signed this
(insert printed name of signatory on this line)

instrument in our presence.

Witnessed by:  Date: 27/10/17
Signature
Printed Name of Witness Tammy King

Witnessed by:  Date: 27/10/17
Signature
Printed Name of Witness Alycia Hunt

FOR US INVENTORS, NOTARY IS REQUIRED

State of _____)
)SS
County of _____)

Before me this _____ day of _____, 20____, personally appeared

_____, to me personally known as the same person whose name is subscribed to the foregoing instrument, who acknowledged to me that such instrument was signed, sealed, and delivered as that person's free and voluntary act for the uses and purposes set forth therein.

[Seal]

Notary Public
My Commission Expires _____

WAL0400 PCT US

IN TESTIMONY WHEREOF, I/we has(have) executed this Assignment on the dates stated after my(our) respective signature(s).

| Name | Signature (please sign in the box below) | Date | Address & Citizenship |
|--------------------|--|-------------------------|---|
| Andrew John Taylor | <i>A.J. Taylor</i> | 30th October 2017 | c/o Mars Waltham Centre for Pet Nutrition Freeby Lane, Waltham- on-the-Wolds Melton Mowbray Leicestershire, LE14 4RT Citizenship:GB |

FOR INVENTORS OUTSIDE THE UNITED STATES ONLY:

Andrew John Taylor, whose name and signature appear above, signed this
(Insert printed name of signatory on this line)

instrument in our presence.

Witnessed by: *Graham Flack* Date: 30/10/2017
Signature
Printed Name of Witness GRAHAM FLACK

Witnessed by: *J.M. Flack* Date: 30/10/2017
Signature
Printed Name of Witness J.M. FLACK

FOR US INVENTORS, NOTARY IS REQUIRED

State of _____)
County of _____)SS

Before me this _____ day of _____, 20____, personally appeared _____,

to me personally known as the same person whose name is subscribed to the foregoing instrument, who acknowledged to me that such instrument was signed, sealed, and delivered as that person's free and voluntary act for the uses and purposes set forth therein.

[Seal]

Notary Public
My Commission Expires _____

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