PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------------|----------------|
| MICHEL MUEHLEBACH | 05/05/2010 |
| STEPHANE ANDRE JEANMART | 05/05/2010 |
| MANGALA GOVENKAR | 04/15/2010 |
| CHRISTOPHER JOHN MATHEWS | 05/10/2010 |
| JAMES NICHOLAS SCUTT | 05/10/2010 |

RECEIVING PARTY DATA

| Name: | Syngenta Crop Protection, LLC | |
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| Street Address: | 410 Swing Road | |
| City: | Greensboro | |
| State/Country: | NORTH CAROLINA | |
| Postal Code: | 27409 | |

| Name: | SYNGENTA LIMITED |
|-------------------|--------------------------------------|
| Street Address: | EUROPEAN REGIONAL CENTRE |
| Internal Address: | PRIESTLEY ROAD, SURREY RESEARCH PARK |
| City: | GUILDFORD, SURREY |
| State/Country: | UNITED KINGDOM |
| Postal Code: | GU2 7YH |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12747395 |

CORRESPONDENCE DATA

Fax Number: (919)226-7458 Phone: 336.632-2238

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PATENT

REEL: 031729 FRAME: 0001

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| ATTORNEY DOCKET NUMBER: | 71756-US-REG-ORG-P |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | LYNN STENDLER |
| Signature: | /Lynn Stendler/ |
| Date: | 12/06/2013 |

Total Attachments: 2

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> **PATENT REEL: 031729 FRAME: 0002**

ASSIGNMENT

I / We Michel MUEHLEBACH, Syngenta Crop Protection Münchwilen AG, Schaffhauserstrasse, 4332 Stein, Switzerland, citizen of Switzerland

Christopher John MATHEWS, Syngenta Limited, Jealotts Hill International Research Center, Bracknell, Berkshire RG42 6EY, Great Britain, citizen of United Kingdom

James Nicholas SCUTT, Syngenta Limited, Jealotts Hill International Research Center, Bracknell, Berkshire RG42 6EY, Great Britain, citizen of United Kingdom

Stephane André Marie JEANMART, Syngenta Crop Protection Münchwilen AG, Schaffhauserstrasse, 4332 Stein, Switzerland, citizen of Belgium

Mangala GOVENKAR, Syngenta Biosciences Pvt.Limited, Santa Monica Works, Corlim, Ilhas Goa 403 110, India, citizen of India

for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to SYNGENTA CROP PROTECTION, INC., a Delaware corporation, of 410 Swing Road, Greensboro, North Carolina 27409, United States Of America & SYNGENTA LIMITED, European Regional Centre, Priestley Road, Surrey Research Park, Guildford, Surrey GU2 7YH, United Kingdom, its/their successors, assigns and legal representatives all my/our right, title and interest, in and for the United States of America, in and to the invention entitled:

4-PHENYLPYRANE-3,5-DIONES, 4-PHENYLTHIOPYRANE-3,5-DIONES AND 2-PHENYLCYCLOHEXANE-1,3,5-TRIONES AS HERBICIDES

invented by me/us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by the said SYNGENTA CROP PROTECTION, INC. & SYNGENTA LIMITED, its/their successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made:

And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said SYNGENTA CROP PROTECTION, INC. & SYNGENTA LIMITED.

Michel MUEHLEBACH

Christopher John MATHEWS

James Nicholas SCUTT

Stephane André Marie JEANMART

Mangala GOVENKAR

Signed on (day/month/year)

PATENT REEL: 031729 FRAME: 0003

ASSIGNMENT

I / We Michel MUEHLEBACH, Syngenta Crop Protection Münchwilen AG, Schaffhauserstrasse, 4332 Stein, Switzerland, citizen of Switzerland

Christopher John MATHEWS, Syngenta Limited, Jealotts Hill International Research Center, Bracknell, Berkshire RG42 6EY, Great Britain, citizen of United Kingdom

James Nicholas SCUTT, Syngenta Limited, Jealotts Hill International Research Center, Bracknell, Berkshire RG42 6EY, Great Britain, citizen of United Kingdom

Stephane André Marie JEANMART, Synganta Crop Protection Münchwilen AG, Schaffhauserstrasse, 4332 Stein, Switzerland, citizen of Belgium

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4-PHENYLPYRANE-3,5-DIONES, 4-PHENYLTHIOPYRANE-3,5-DIONES AND 2-PHENYLCYCLOHEXANE-1,3,5-TRIONES AS HERBICIDES

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And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said SYNGENTA CROP PROTECTION, INC. & SYNGENTA LIMITED.

| Michel MUEHLEBACH | Christopher John MATHEWS | 2010 |
|----------------------|-------------------------------|------|
| James Nicholas SCUTT | Stephane André Marie JEANMART | |
| Mangala GOVENKAR | | |

Signed on (day/month/year)

PATENT REEL: 031729 FRAME: 0004

RECORDED: 12/06/2013