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Concept House  
Cardiff Road  
Newport  
South Wales  
NP10 8QQ

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Signed A HAYES

Dated 14 November 2018



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## Patents Form 1

Patents Act 1977 (Rule 12)

Request for grant of a patent

Concept House  
Cardiff Road  
Newport  
South Wales  
NP10 8QQ

Application number GB 1816459.0

1. Your reference	<b>81698-GB-REG-ORG-NAT-1</b>		
2. Full name, address and postcode of the applicant or of each applicant	<b>SYNGENTA PARTICIPATIONS AG</b> <b>Schwarzwaldallee 215</b> <b>Basel 4058</b> <b>Switzerland</b>		
Patents ADP number (if you know it)	08290835001		
3. Title of the invention	<b>IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS</b>		
4. Name of your agent (if you have one)	<b>SYNGENTA LIMITED</b>		
"Address for service" to which all correspondence should be sent. This may be in the European Economic area or Channel Islands (see warning note below) (including the postcode)	<b>Jealott's Hill International Research Centre</b> <b>Bracknell RG42 6EY</b> <b>Berkshire</b> <b>United Kingdom</b>		
Patents ADP number (if you know it)	11797537001		
5. Priority declaration: Are you claiming priority from one or more earlier-filed patent applications? If so, please give details of the application(s)			
	Country	Application number	Date of filing
6. Divisionals etc: Is this application a divisional application, or being made following resolution of an entitlement dispute about an earlier application. If so, please give the application number and filing date of the earlier application			PDAS Access Code
		Number of earlier UK application	Date of filing (day / month / year)
7. Inventorship: (Inventors must be individuals not companies)			
Are all the applicants named above also inventors?	<b>No</b>		
8. Are you paying the application fee with this form?	<b>Yes</b>		

## Patents Form 1

9. Accompanying documents: please enter the number of pages of each item accompanying this form.

Continuation sheets of this form

Description: **36**

Claim(s): **4**

Abstract: **1**

Drawing(s): **n/a**

If you are not filing a description, please give details of the previous application you are going to rely upon

Country	Application number	Date of filing	PDAS Access Code
10. If you are also filing any of the following, state how many against each item.			

Priority documents: **0**

Statement of inventorship and right to grant of a patent  
(Patents Form 7): **0**

Request for search (Patents Form 9A): **1**

Request for a substantive examination (Patents Form 10): **0**

Any other documents (please specify): **Pre-conversion Archive  
PDAS Registration Form**

11. I/We request the grant of a patent on the basis of this application.

Signature: **Subject: Christopher Andrews 27278;  
Issuer: European Patent Office, European  
Patent Office CA G2**

Date: **09 Oct 2018**

12. Name, e-mail address, telephone, fax and/or mobile number, if any, of a contact point for the applicant

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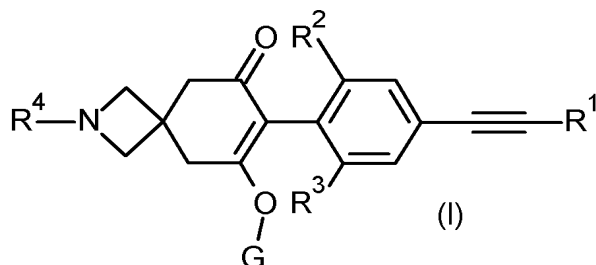
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## IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS

The present invention relates to novel herbicidal cyclohexanedione compounds, to processes for their preparation, to herbicidal compositions which  
5 comprise the novel compounds, and to their use for controlling weeds.

Herbicidal cyclic dione compounds substituted by a phenyl which has an alkynyl-containing substituent are disclosed in, for example, WO2014/096289 and WO2015/197468. The present invention relates to novel herbicidal cyclohexanedione  
10 derivatives with improved properties.

Thus, according to the present invention there is provided a compound of Formula (I)



wherein

R<sup>1</sup> is methyl;

R<sup>2</sup> is methyl or methoxy;

R<sup>3</sup> is methyl or methoxy;

R<sup>4</sup> is selected from the group consisting of C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy-, C<sub>1</sub>-C<sub>4</sub>haloalkyl, -C(O)C<sub>1</sub>-C<sub>4</sub>alkyl, -C(O)C<sub>1</sub>-C<sub>4</sub>haloalkyl, -S(O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub>alkyl, -S(O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub>haloalkyl, -S(O)<sub>n</sub>-(CH<sub>2</sub>)<sub>n</sub>-C<sub>3</sub>-C<sub>6</sub>cycloalkyl, -S(O)<sub>n</sub>C(R<sup>11</sup>)R<sup>12</sup>R<sup>13</sup>, -C(O)H, -C(O)-(CH<sub>2</sub>)<sub>n</sub>-C<sub>3</sub>-C<sub>6</sub>cycloalkyl, -C(O)C(R<sup>11</sup>)R<sup>12</sup>R<sup>13</sup>, -C(O)C<sub>2</sub>-C<sub>4</sub>alkenyl, -C(O)(CR<sup>9</sup>R<sup>10</sup>)CN, -C(O)OC<sub>1</sub>-C<sub>6</sub>alkyl, -C(O)OC<sub>1</sub>-C<sub>6</sub>haloalkyl, -C(O)(CH<sub>2</sub>)<sub>n</sub>S(O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub>alkyl, -C(O)C<sub>1</sub>-C<sub>3</sub>alkoxyC<sub>1</sub>-C<sub>6</sub>alkyl, -C(O)NR<sup>5</sup>R<sup>6</sup>, -C(O)-(CH<sub>2</sub>)<sub>n</sub>-NR<sup>7</sup>C(O)R<sup>8</sup>, -CN, -(CH<sub>2</sub>)<sub>n</sub>-phenyl, -C(O)-(CH<sub>2</sub>)<sub>n</sub>-phenyl, -S(O)<sub>n</sub>-(CH<sub>2</sub>)<sub>n</sub>-phenyl, -heterocyclyl, -C(O)-(CH<sub>2</sub>)<sub>n</sub>-heterocyclyl, -S(O)<sub>n</sub>-(CH<sub>2</sub>)<sub>n</sub>-heterocyclyl,

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