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Date of issue of this certificate: 23 Oct 2019 (23.10.2019)

Concept House
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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 | 81698-GB-REG-ORG-NAT-1 | | |
| 2. Full name, address and postcode of the applicant or of each applicant | SYNGENTA PARTICIPATIONS AG Schwarzwaldallee 215 Basel 4058 08290835001 Switzerland | | |
| Patents ADP number (if you know it) | | | |
| 3. Title of the invention | IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS | | |
| 4. Name of your agent (if you have one) "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) | SYNGENTA LIMITED Jealott's Hill International Research Centre Bracknell RG42 6EY Berkshire United Kingdom 11797537001 | | |
| Patents ADP number (if you know it) | | | |
| 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 |
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| | | | 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? | No | | |
| 8. Are you paying the application fee with this form? | Yes | | |

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

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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
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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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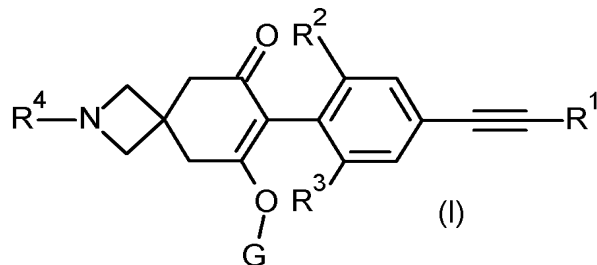
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IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS

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
10 WO2015/197468. The present invention relates to novel herbicidal cyclohexanedione derivatives with improved properties.

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



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wherein

R¹ is methyl;

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R² is methyl or methoxy;

R³ is methyl or methoxy;

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R⁴ is selected from the group consisting of C₁-C₄alkyl, C₁-C₄alkoxy-, C₁-C₄haloalkyl, -C(O)C₁-C₄alkyl, -C(O)C₁-C₄haloalkyl, -S(O)_nC₁-C₆alkyl, -S(O)_nC₁-C₆haloalkyl, -S(O)_n-(CH₂)_n-C₃-C₆cycloalkyl, -S(O)_nC(R¹¹)R¹²R¹³, -C(O)H, -C(O)-(CH₂)_n-C₃-C₆cycloalkyl, -C(O)C(R¹¹)R¹²R¹³, -C(O)C₂-C₄alkenyl, -C(O)(CR⁹R¹⁰)CN, -C(O)OC₁-C₆alkyl, -C(O)OC₁-C₆haloalkyl, -C(O)(CH₂)_nS(O)_nC₁-C₆alkyl, -C(O)C₁-C₃alkoxyC₁-C₆alkyl, -C(O)NR⁵R⁶, -C(O)-(CH₂)_n-NR⁷C(O)R⁸, -CN, -(CH₂)_n-phenyl, -C(O)-(CH₂)_n-phenyl, -S(O)_n-(CH₂)_n-phenyl, -heterocyclyl, -C(O)-(CH₂)_n-heterocyclyl, -S(O)_n-(CH₂)_n-heterocyclyl,

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