

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum
Internationales Büro

(43) Internationales Veröffentlichungsdatum
11. April 2019 (11.04.2019)



(10) Internationale Veröffentlichungsnummer
WO 2019/068572 A1

(51) Internationale Patentklassifikation:

C07D 519/00 (2006.01) A01N 43/90 (2006.01)

(21) Internationales Aktenzeichen: PCT/EP2018/076404

(22) Internationales Anmeldedatum:
28. September 2018 (28.09.2018)

(25) Einreichungssprache: Deutsch

(26) Veröffentlichungssprache: Deutsch

(30) Angaben zur Priorität:

17194731.0 04. Oktober 2017 (04.10.2017) EP

(71) Anmelder: **BAYER AKTIENGESELLSCHAFT**
[DE/DE]; Kaiser-Wilhelm-Allee 1, 51373 Leverkusen
(DE).

(72) Erfinder: **HAGER, Dominik**; Lottenstraße 10, 40789
Monheim (DE). **FISCHER, Rüdiger**; Zu den Fußfällen 23,
50259 Pulheim (DE). **HOFFMEISTER, Laura**; Urdenba-
cher Allee 19, 40593 Düsseldorf (DE). **KAUSCH-BUSIES,**
Nina; Irlenfelder Weg 38a, 51467 Bergisch Gladbach (DE).
MOSRIN, Marc; Bachemer Strasse 341a, 50935 Köln
(DE). **WILCKE, David**; Degerstr. 4, 40235 Düsseldorf
(DE). **WILLOT, Matthieu**; Jahnstraße 15, 40215 Düssel-
dorf (DE). **ILG, Kerstin**; Neusser Wall 32, 50670 Köln
(DE). **EILMUS, Sascha**; Neuenkamp 9a, 42799 Leichlin-
gen (DE). **GÖRGENS, Ulrich**; Fester Str. 37, 40882 Ratin-
gen (DE). **TURBERG, Andreas**; Sinterstr. 86, 42781 Haan
(DE).

(74) Anwalt: **BIP PATENTS**; Alfred-Nobel-Str. 10, 40789
Monheim am Rhein (DE).

(81) Bestimmungsstaaten (soweit nicht anders angegeben, für
jede verfügbare nationale Schutzrechtsart): AE, AG, AL,
AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Bestimmungsstaaten (soweit nicht anders angegeben, für
jede verfügbare regionale Schutzrechtsart): ARIPO (BW,
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST,
SZ, TZ, UG, ZM, ZW), eurasisches (AM, AZ, BY, KG, KZ,
RU, TJ, TM), europäisches (AL, AT, BE, BG, CH, CY, CZ,
DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,
LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI,
SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Erklärungen gemäß Regel 4.17:

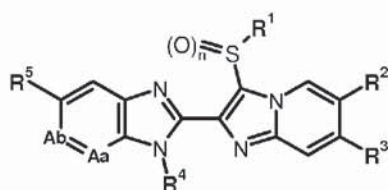
— hinsichtlich der Berechtigung des Anmelders, ein Patent zu
beantragen und zu erhalten (Regel 4.17 Ziffer ii)

Veröffentlicht:

— mit internationalem Recherchenbericht (Artikel 21 Absatz
3)

(54) Title: DERIVATIVES OF HETEROCYCLIC COMPOUNDS AS PEST CONTROL AGENTS

(54) Bezeichnung: HETEROCYCLEN-DERIVATE ALS SCHÄDLINGSBEKÄMPFUNGSMITTEL



(1)

(57) Abstract: The invention relates to novel compounds of formula (I), wherein
Aa, Ab, R¹, R², R³, R⁴, R⁵ and n have the meanings indicated in the description,
to the use thereof as acaricides and/or insecticides for controlling animal pests,
and to methods and intermediate products for the production thereof.

(57) Zusammenfassung: Die Erfindung betrifft neue Verbindungen der Formel
(I), in welcher Aa, Ab, R¹, R², R³, R⁴, R⁵ und n die oben genannten Bedeutungen
haben, deren Verwendung als Akarizide und/oder Insektizide zur Bekämpfung
tierischer Schädlinge und Verfahren und Zwischenprodukte zu ihrer Herstellung.



WO 2019/068572 A1

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

BIP PATENTS
Alfred-Nobel-Str. 10
40789 Monheim am Rhein
ALLEMAGNE

Date of mailing (day/month/year) 30 March 2020 (30.03.2020)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference BCS173071-WO	
International application No. PCT/EP2018/076404	International filing date (day/month/year) 28 September 2018 (28.09.2018)

1. The following indications appeared on record concerning:		
☐ the applicant	☒ the inventor	☐ the agent
☐ the common representative		
Name and Address MOSRIN, Marc Bachemer Strasse 341a 50935 Köln Germany	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
☐ the person	☐ the name	☒ the address
☐ the nationality		
☐ the residence		
Name and Address MOSRIN, Marc Knipprather Strasse 47 40789 Monheim Germany	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address ☐ Notifications by e-mail authorized	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
☒ the receiving Office	☐ the International Preliminary Examining Authority	
☒ the International Searching Authority	☒ the designated Offices concerned	
☐ the Authority(ies) specified for supplementary search	☐ the elected Offices concerned	
	☐ other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Wimmer Peter e-mail pct.team5@wipo.int Telephone No. +41 22 338 74 05
---	--

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

BIP PATENTS
Alfred-Nobel-Str. 10
40789 Monheim am Rhein
ALLEMAGNE

Date of mailing (day/month/year) 30 March 2020 (30.03.2020)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference BCS173071-WO	
International application No. PCT/EP2018/076404	International filing date (day/month/year) 28 September 2018 (28.09.2018)

1. The following indications appeared on record concerning:		
☐ the applicant	☒ the inventor	☐ the agent
☐ the common representative		
Name and Address KAUSCH-BUSIES, Nina Irlenfelder Weg 38a 51467 Bergisch Gladbach Germany	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
☐ the person	☐ the name	☒ the address
☐ the nationality		
☐ the residence		
Name and Address KAUSCH-BUSIES, Nina Volksgartenstrasse 33 40227 Düsseldorf Germany	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address ☐ Notifications by e-mail authorized	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
☒ the receiving Office	☐ the International Preliminary Examining Authority	
☒ the International Searching Authority	☒ the designated Offices concerned	
☐ the Authority(ies) specified for supplementary search	☐ the elected Offices concerned	
	☐ other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Wimmer Peter e-mail pct.team5@wipo.int Telephone No. +41 22 338 74 05
---	--

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

BIP PATENTS
Alfred-Nobel-Str. 10
40789 Monheim am Rhein
ALLEMAGNE

Date of mailing (day/month/year) 30 March 2020 (30.03.2020)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference BCS173071-WO	
International application No. PCT/EP2018/076404	International filing date (day/month/year) 28 September 2018 (28.09.2018)

1. The following indications appeared on record concerning:		
☐ the applicant	☒ the inventor	☐ the agent
☐ the common representative		
Name and Address WILCKE, David Degerstr.4 40235 Düsseldorf Germany	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
☐ the person	☐ the name	☒ the address
☐ the nationality		
☐ the residence		
Name and Address WILCKE, David Achenbachstr. 64 40237 Düsseldorf Germany	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address ☐ Notifications by e-mail authorized	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
☒ the receiving Office	☐ the International Preliminary Examining Authority	
☒ the International Searching Authority	☒ the designated Offices concerned	
☐ the Authority(ies) specified for supplementary search	☐ the elected Offices concerned	
	☐ other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Wimmer Peter e-mail pct.team5@wipo.int Telephone No. +41 22 338 74 05
---	--