

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8384543

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CORTEVA AGRISCIENCE LLC	12/14/2023
RECEIVING PARTY DATA	
Name:	ECOLAB USA INC.
Street Address:	1 ECOLAB PLACE
City:	SAINT PAUL
State/Country:	MINNESOTA
Postal Code:	55102
PROPERTY NUMBERS Total: 13	
Property Type	Number
Application Number:	18506462
Application Number:	17871033
Application Number:	17600801
Application Number:	18124778
Application Number:	18202681
Application Number:	11975914
Application Number:	12800462
Application Number:	12968620
Application Number:	13723760
Application Number:	14153723
Application Number:	14594613
Application Number:	16294396
Application Number:	17572091
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	request@slwip.com
Correspondent Name:	SCHWEGMAN LUNDBERG & WOESSNER, P.A.
Address Line 1:	P.O. BOX 2938
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402

PATENT

ATTORNEY DOCKET NUMBER:	4897.000001
NAME OF SUBMITTER:	DIANA JOHNSON
SIGNATURE:	/Diana Johnson/
DATE SIGNED:	01/17/2024

Total Attachments: 24

source=4897.00001 Assignment Corteva to Ecolab - signed#page1.tif
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RECORDATION FORM COVER SHEET
PATENTS ONLY

Form PTO-1595 (Rev. 6-18)
OMB No. 0651-0027 (exp. 10/31/2024)
Docket Number: 4897.000001

U.S. Department of Commerce
United States Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

CORTEVA AGRISCIENCE LLC

Additional name(s) of conveying party(ies) attached?

Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2023

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other

2. Name and address of receiving party(ies):

Name: Ecolab USA Inc.

Street Address: 1 Ecolab Place

City: Saint Paul

State/Province: MN

Zip: 55102

Country: United States of America

Additional name(s) & address(es) attached?
 Yes No

4. Application number(s) or patent number(s): This document serves as an Oath/Declaration (37 CFR 1.63)

A. Patent Application No.(s)

B. Patent No.(s)

See Schedule A

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Timothy E. Bianchi

Address:

Schwegman Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, Minnesota 55402

Phone Number: (612) 373-6912

Docket Number: 4897.097US8

Email Address: request@slwip.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41): \$0.00

Authorized to be charged to deposit account 19-0743

Enclosed

None required (government interest not affecting title)

8. Payment Information

Deposit Account No.: 19-0743

Authorized User Name: Timothy E. Bianchi

9. Signature:

Timothy E. Bianchi/Reg. No. 39,610

Name of Person Signing

/ *Timothy E. Bianchi*

Signature

/ Jan 11, 2024

Date

Total number of pages including cover sheet, attachments, and documents: 24

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT
REEL: 066339 FRAME: 0595

Schedule A

FILE NUMBER	DATE FILED	SERIAL NO.	STATUS
4897.089US4	Nov 10, 2023	18506462	Pending
4897.092US7	Jul 22, 2022	17871033	Pending
4897.093US1	Oct 1, 2021	17600801	Pending
4897.094US2	Mar 22, 2023	18124778	Pending
4897.096US4	May 26, 2023	18202681	Pending
4897.097US1	Oct 22, 2007	11975914	Issued
4897.097US2	May 14, 2010	12800462	Issued
4897.097US3	Dec 15, 2010	12968620	Issued
4897.097US4	Dec 21, 2012	13723760	Issued
4897.097US5	Jan 13, 2014	14153723	Issued
4897.097US6	Jan 12, 2015	14594613	Issued
4897.097US7	Mar 6, 2019	16294396	Issued
4897.097US8	Jan 10, 2022	17572091	Allowed

ASSIGNMENT OF PATENTS

WHEREAS, Corteva Agriscience LLC, a Delaware limited liability company (“Assignor”), owns all right, title and interest in and to the patents and patent applications identified in Schedule A, attached hereto and incorporated herein by reference (the “Transferred Patents”); and

WHEREAS, Ecolab USA Inc., a Delaware corporation (“Assignee”), as the designee of Ecolab Inc. (“Ecolab”), is desirous of acquiring the rights in Assignor’s Transferred Patents as contemplated in the Asset Purchase Agreement, dated as of December 14, 2023, by and among Assignor and Ecolab (the “Purchase Agreement”).

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee, each intending to be legally bound, hereby agree as follows:

1. Assignor does hereby sell, assign, transfer and set over to Assignee, and Assignee hereby accepts Assignor’s entire right, title and interest in and to the Transferred Patents, the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the terms for which patents are granted or renewed as fully and entirely as the same would have been held or enjoyed by Assignor if this Assignment of Patents (this “Assignment”) had not been made, including, but not limited to, (i) all patents, patent applications, reissues, divisionals, continuations, continuations-in-part, renewals, reexamination certificates claiming priority to the Patents and (ii) all rights and claims, including claims for damages, lost profits, royalties and benefits arising because of any past, present and future infringements, misappropriations or other violations of the Transferred Patents.

2. Assignor hereby authorizes and requests the Commissioner for Patents of the United States Patent and Trademark Office and any official of any other country, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to record and register this Assignment upon request by Assignee.

3. Capitalized terms used but not defined in this Assignment shall have the meanings set forth in the Purchase Agreement.

4. Nothing contained in this Assignment shall be deemed to release either Assignor or Assignee in any way from any of their respective obligations under the Purchase Agreement, or to supersede, enlarge on or modify any of the obligations, agreements, covenants, representations or warranties of either Assignor or Assignee contained in the Purchase Agreement, all of which survive the execution and delivery of this Assignment as provided and subject to the limitations set forth in the Purchase Agreement. If any conflict exists between the terms and provisions of this Assignment and the terms and provisions of the Purchase Agreement, then the terms and provisions of the Purchase Agreement shall govern and control.

5. This Assignment shall be governed by, and construed and enforced in accordance with, the laws of the State of Delaware, without regard to any choice or conflict of law provision or rule (whether of the State of Delaware or any other jurisdiction) that would cause the application of the laws of any jurisdiction other than the State of Delaware.

6. This Assignment shall inure to the benefit of Assignee, and its successors and assigns and shall be binding upon Seller and its respective successors and assigns.

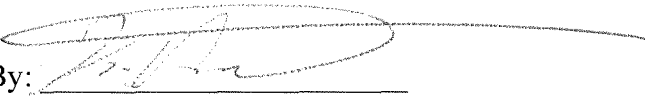
7. This Assignment may be executed and delivered (including by facsimile or other means of electronic transmission, such as by electronic mail in "pdf" form) in more than one counterpart, all of which shall be considered one and the same agreement, each of which when executed shall be deemed to be an original, and shall become effective when one or more such counterparts have been signed by each of the parties and delivered to each of the parties.

[Signature Page Follows]

IN WITNESS WHEREOF, each of the parties hereto has executed and delivered this Assignment of Patents as of the date first above written.

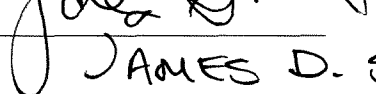
CORTEVA AGRISCIENCE LLC

Date: December 14, 2023

By: 
Name: Kurt Van Thomme
Title: Assistant Secretary

ECOLAB USA INC.

Date: December 14, 2023

By: 
Name: JAMES D. SMITH
Title: Deputy General Counsel,
Litigation, Intellectual
Property & Environmental

SCHEDULE A

Transferred Patents

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/112051/EP/DIV/2	112051-EP-DIV-2	European Patent Office						Drafting	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112229/CN/DIV/1	112229-CN-DIV-1	China						Drafting		ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
CTVA/P/114060/AU/DIV/1	64745A-AU-PCD	Australia	1/31/2013	AU20130200548		AU2013200548B2	10/1/2015	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/AU/DIV/2	64745A-AU-PCD[2]	Australia	9/17/2015	AU20150227488		AU2015227488B2	11/24/2016	Issued	1/31/2033	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/AU/DIV/3	64745A-AU-PCD[3]	Australia	11/3/2016	AU20160253632		AU2016253632B2	7/26/2018	Issued	1/31/2033	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/AU/DIV/4	64745A-AU-PCD[4]	Australia	7/12/2018	AU20180205162		AU2018205162B2	10/29/2020	Issued	1/31/2033	BEDBUG DETECTION, MONITORING	114060

PATENT

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/114060/AU/PCT/1	64745A-AU-PCT	Australia	10/22/2007	AU20070309475		AU2007309475B2	2/21/2013	Issued	10/22/2027	AND CONTROL TECHNIQUES BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/EP/PCT/1	64745A-EP-EPT	European Patent Office	10/22/2007	EP07852871	7/8/2009			Abandoned	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/EP/DIV/1	64745A-EP-ETD	European Patent Office	4/9/2014	EP14164104.3	9/17/2014	EP2756755B1	10/3/2018	Issued	4/9/2034	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/ES/EPV/1	64745A-ES-ETD	Spain	4/9/2014	ES14164104.3	9/17/2014	ES2756755	10/3/2018	Issued	4/9/2034	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/FR/EPV/1	64745A-FR-ETD	France	4/9/2014	FR14164104.3	9/17/2014	FR2756755	10/3/2018	Issued	4/9/2034	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/IT/EPV/1	64745A-IT-ETD	Italy	4/9/2014	IT14164104.3	9/17/2014	IT502018000035547	10/3/2018	Issued	4/9/2034	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/JP/PCT/1	64745A-JP-PCT	Japan	10/22/2007	JP2009534606	3/11/2010	JP5066575B2	8/17/2012	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/US/CON/1	64745A-US-CNT	United States of America	12/15/2010	US12968620	4/7/2011	US8375626B2	2/19/2013	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060

PATENT

REEL: 066339 FRAME: 0601

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/114060/US/CON/2	64745A-US-CNT[2]	United States of America	12/21/2012	US13723760	5/23/2013	US8661728B2	3/4/2014	Issued	10/22/2027	AND CONTROL TECHNIQUES BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/US/CON/3	64745A-US-CNT[3]	United States of America	1/13/2014	US14153723	5/8/2014	US8984804B2	3/24/2015	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/US/CON/4	64745A-US-CNT[4]	United States of America	1/12/2015	US14594613	5/7/2015	US10264776B2	4/23/2019	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/US/CON/5	64745A-US-CNT[5]	United States of America	3/6/2019	US16294396	7/4/2019	US11234430B2	2/1/2022	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/US/DIV/1	64745A-US-DIV	United States of America	5/14/2010	US12800462	9/9/2010	US7905048B2	3/15/2011	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/US/DIV/2	64745A-US-DIV[2]	United States of America	1/10/2022	US17572091	4/28/2022			Pending	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/US/UTL/1	64745A-US-NP	United States of America	10/22/2007	US11975914	6/26/2008	US7743552B2	6/29/2010	Issued	10/22/2027	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060
CTVA/P/114060/WO/SEC/1	64745A-WO-PCT	World Intellectual Property	10/22/2007	PCT/US2007/022386	5/2/2008			Completed	5/23/2009	BEDBUG DETECTION, MONITORING AND CONTROL TECHNIQUES	114060

PATENT

REEL: 066339 FRAME: 0602

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
		Organization (WIPO)/PCT								AND CONTROL TECHNIQUES	
CTVA/P/110255/AT/EPV/1	64898-AT-EPT	Austria	9/9/2009	AT9789281.4	5/25/2011	AT2323478	3/29/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/AU/DIV/1	64898-AU-PCD	Australia	9/9/2009	AU2014203633	7/17/2014	AU2014203633C1	3/8/2018	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/AU/PCT/1	64898-AU-PCT	Australia	9/9/2009	AU20090292169		AU2009292169B2	7/17/2014	Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/BR/PCT/1	64898-BR-PCT	Brazil	9/9/2009	BRPI09186204				Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/CH/EPV/1	64898-CH-EPT	Switzerland	9/9/2009	CH9789281.4	5/25/2011	CH2323478	3/29/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/CN/PCT/1	64898-CN-PCT	China	9/9/2009	CN200980134889.X	8/3/2011	CN/ZL 200980134889.X	4/22/2015	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/DE/EPV/1	64898-DE-EPT	Germany	9/9/2009	DE9789281.4	5/25/2011	DE602009045106.5	3/29/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/EP/PCT/1	64898-EP-EPT	European Patent Office	9/9/2009	EP09789281.4	5/25/2011	EP2323478B1	3/29/2017	Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/EP/DIV/1	64898-EP-ETD	European Patent Office	3/28/2017	EP17163236.7	8/23/2017	EP3207797	6/7/2023	Issued	3/28/2037	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/EP/DIV/2	64898-EP-ETD[2]	European Patent Office						Drafting		NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/ES/EPV/1	64898-ES-EPT	Spain	9/9/2009	ES9789281.4	5/25/2011	ES2323478	3/29/2017	Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255

PATENT

REEL: 066339 FRAME: 0603

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/110255/FR/EPV/1	64898-FR-EPT	France	9/9/2009	FR9789281.4	5/25/2011	FR2323478	3/29/2017	Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/GB/EPV/1	64898-GB-EPT	United Kingdom	9/9/2009	GB9789281.4	5/25/2011	GB2323478	3/29/2017	Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/GR/EPV/1	64898-GR-EPT	Greece	9/9/2009	GR9789281.4	5/25/2011	GR3092886	3/29/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/HK/RG/1	64898-HK-FPR	Hong Kong	11/21/2011	HK11112565.7	7/13/2012	HK1158015A1	12/18/2015	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/IT/EPV/1	64898-IT-EPT	Italy	9/9/2009	IT9789281.4	5/25/2011	IT2323478	3/29/2017	Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/JP/DIV/1	64898-JP-PCD	Japan	8/28/2014	JP2014141991	12/18/2014	JP5889967B2	2/26/2016	Issued	8/28/2034	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/JP/PCT/1	64898-JP-PCT	Japan	9/9/2009	JP2011526059	8/27/2014	JP580316B2	7/18/2014	Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/MY/DIV/1	64898-MY-PCD	Malaysia	4/15/2016	MYPI2016000629				Abandoned	4/15/2036	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/MY/DIV/2	64898-MY-PCD[2]	Malaysia						Abandoned		NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/MY/PCT/1	64898-MY-PCT	Malaysia	9/9/2009	MYPI 2011001025		MY164404A	12/15/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/PH/DIV/1	64898-PH-PCD	Philippines	8/22/2013	PHI2013501735		PHI-2013-501735	11/18/2016	Abandoned	8/22/2033	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/PH/PCT/1	64898-PH-PCT	Philippines	9/9/2009	PHI2011500471		PHI-2011-500471	12/10/2013	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255

PATENT

REEL: 066339 FRAME: 0604

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/110255/PL/EPV/1	64898-PL-EPT	Poland	9/9/2009	PL9789281.4	5/25/2011	PL2323478	3/29/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/PT/EPV/1	64898-PT-EPT	Portugal	9/9/2009	PT9789281.4	5/25/2011	PT2323478	3/29/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/SG/DIV/1	64898-SG-PCD	Singapore	1/22/2016	SG10201600521W				Abandoned	1/22/2036	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/SG/PCT/1	64898-SG-PCT	Singapore	9/9/2009	SG2011017027		SG169592	2/16/2016	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/TR/EPV/1	64898-TR-EPT	Turkey	9/9/2009	TR9789281.4	5/25/2011	TR2323478	3/29/2017	Abandoned	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/US/CON/1	64898-US-CNT	United States of America	8/19/2011	US13213153	8/23/2012	US8830071B2	9/9/2014	Issued	9/8/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/US/CON/2	64898-US-CNT[2]	United States of America	7/21/2014	US14336529	11/6/2014	US9542835B2	1/10/2017	Issued	9/8/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/US/CON/3	64898-US-CNT[3]	United States of America	1/10/2017	US15402977	7/6/2017	US10085133B2	9/25/2018	Issued	9/8/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/US/UTL/1	64898-US-NP	United States of America	9/8/2009	US12584581	6/3/2010	US8026822B2	9/27/2011	Issued	9/8/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/US/PRV/1	64898-US-PSP	United States of America	9/9/2008	US61191461				Expired	9/9/2009	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/WO/SEC/1	64898-WO-PCT	World Intellectual Property Organization (WIPO)/PCT	9/9/2009	PCT/US2009/005056	3/18/2010			Expired	4/9/2011	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/111523/AE/PCT/1	75374-AE-PCT	United Arab Emirates	11/3/2015	AEP6000418/17				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND	111523

PATENT

REEL: 066339 FRAME: 0605

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/111523/AU/DIV/2	75374-AU-PCD	Australia	11/3/2015	AU20190203194		AU2019203194B2	1/21/2021	Issued	11/3/2035	METHOD OF OPERATING SAME PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/AU/DIV/1	75374-AU-PCD[2]	Australia	11/3/2015	AU20200281085		AU2020281085B2	9/29/2022	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/AU/DIV/3	75374-AU-PCD[3]	Australia	11/3/2015	AU20220203464	6/9/2022			Pending	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/AU/PCT/1	75374-AU-PCT	Australia	11/3/2015	AU20150343303		AU2015343303B2	5/23/2019	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/BR/PCT/1	75374-BR-PCT	Brazil	11/3/2015	BR1120170072190				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/CA/PCT/1	75374-CA-PCT	Canada	11/3/2015	CA2964135				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/CL/PCT/1	75374-CL-PCT	Chile	11/3/2015	CL879/17				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/CN/PCT/1	75374-CN-PCT	China	11/3/2015	CN201580055553.X	8/18/2017			Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523

PATENT

REEL: 066339 FRAME: 0606

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/111523/EP/PCT/1	75374-EP-EPT	European Patent Office	11/3/2015	EP15857915.1	9/13/2017			Abandoned	11/3/2035	METHOD OF OPERATING SAME PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/ID/PCT/1	75374-ID-PCT	Indonesia	11/3/2015	IDP00201702198				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/IN/PCT/1	75374-IN-PCT	India	11/3/2015	IN201717012607	7/14/2017			Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/JP/PCT/1	75374-JP-PCT	Japan	11/3/2015	JP2017519486		JP6710203B2	5/28/2020	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/KR/PCT/1	75374-KR-PCT	Republic of Korea	11/3/2015	KR1020177009644				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/MX/PCT/1	75374-MX-PCT	Mexico	11/3/2015	MX/a/17/004561				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/MY/PCT/1	75374-MY-PCT	Malaysia	11/3/2015	MYPI2017701253				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/PH/PCT/1	75374-PH-PCT	Philippines	11/3/2015	PH12017500666				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523

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REEL: 066339 FRAME: 0607

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/111523/SG/PCT/1	75374-SG-PCT	Singapore	11/3/2015	SG11201702965Y				Abandoned	11/3/2035	METHOD OF OPERATING SAME PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/TH/PCT/1	75374-TH-PCT	Thailand	11/3/2015	TH1701001963	2/22/2019			Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/TW/SEC/1	75374-TW-NP	Taiwan	11/3/2015	TW104136208				Abandoned	11/3/2035	CAPACITIVE SENSING HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS	111523
CTVA/P/111523/UA/PCT/1	75374-UA-PCT	Ukraine	11/3/2015	UAa201703393				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/US/CON/1	75374-US-PCN	United States of America	8/28/2019	US16553295	12/19/2019	US10548308	2/4/2020	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/US/CON/2	75374-US-PCN[2]	United States of America	10/15/2019	US16653318	2/6/2020	US10638746B2	5/5/2020	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/US/CON/3	75374-US-PCN[3]	United States of America	3/25/2020	US16829072	7/16/2020	US1116203B2	9/14/2021	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523

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REEL: 066339 FRAME: 0608

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/111523/US/CON/4	75374-US-PCN[4]	United States of America	4/20/2020	US16853065	8/6/2020	US10973223B2	4/13/2021	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/US/CON/5	75374-US-PCN[5]	United States of America	8/24/2021	US17410004	12/9/2021	US11432542B2	9/6/2022	Issued	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/US/CON/6	75374-US-PCN[6]	United States of America	7/22/2022	US17871033	11/17/2022			Pending	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/US/PCT/1	75374-US-PCT	United States of America	11/3/2015	US15524444	8/23/2018			Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
CTVA/P/111523/US/PRV/1	75374-US-PSP	United States of America	11/4/2014	US62/074913				Expired	11/4/2015	CAPACITIVE SENSING HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS	111523
VVA/P/111523/US/PRV/2	75374-US-PSP[2]	United States of America	10/19/2015	US62/243410				Expired	10/19/2016	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
VVA/P/111523/VN/PCT/1	75374-VN-PCT	Vietnam	11/3/2015	VN1201701332				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523
VVA/P/111523/WO/SEC/1	75374-WO-PCT	World Intellectual Property	11/3/2015	PCT/US2015/058756	5/12/2016			Expired	6/4/2017	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	111523

PATENT

REEL: 066339 FRAME: 0609

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
		Organization (WIPO)/PCT								OPERATING	
CTVA/P/111523/ZA/DIV/1	75374-ZA-PCD	South Africa	4/17/2018					Abandoned	4/17/2038	PEST CONTROL SYSTEM AND METHOD OF OPERATING	111523
CTVA/P/111523/ZA/PCT/1	75374-ZA-PCT	South Africa	11/3/2015	ZA2017/02562				Abandoned	11/3/2035	PEST CONTROL SYSTEM AND METHOD OF OPERATING	111523
CTVA/P/112051/AU/PCT/1	79710-AU-PCT	Australia	5/21/2018	AU20180273854	12/12/2019			Pending	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/BE/EPV/1	79710-BE-EPT	Belgium	5/21/2018	BE18805866.3	4/8/2020	BE3629723	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/CA/PCT/1	79710-CA-PCT	Canada	5/21/2018	CA3064284	11/29/2018			Pending	5/21/2038	SELECTIVE DETECTION OF BED BUGS	112051
CTVA/P/112051/CN/DIV/1	79710-CN-PCD	China	5/21/2018	CN202210207177.3	7/15/2022			Pending	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/CN/PCT/1	79710-CN-PCT	China	5/21/2018	CN201880048044.8	5/15/2020	ZL201880048044.8	3/18/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/DE/EPV/1	79710-DE-EPT	Germany	5/21/2018	DE18805866.3	4/8/2020	DE602018040727.8	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/EP/PCT/1	79710-EP-EPT	European Patent Office	5/21/2018	EP18805866.3	4/8/2020	EP3629723	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/EP/DIV/1	79710-EP-ETD	European Patent Office	5/21/2018	EP22165178.9	9/14/2022			Pending	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/ES/EPV/1	79710-ES-EPT	Spain	5/21/2018	ES18805866.3	4/8/2020	ES3629723	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION	112051

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REEL: 066339 FRAME: 0610

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/112051/FR/EPV/1	79710-FR-EPT	France	5/21/2018	FR18805866.3	4/8/2020	FR3629723	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/GB/EPV/1	79710-GB-EPT	United Kingdom	5/21/2018	GB18805866.3	4/8/2020	GB3629723	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/IE/EPV/1	79710-IE-EPT	Ireland	5/21/2018	IE18805866.3	4/8/2020	IE3629723	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/IT/EPV/1	79710-IT-EPT	Italy	5/21/2018	IT18805866.3	4/8/2020	IT3629723	9/14/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/JP/DIV/1	79710-JP-PCD	Japan	5/21/2018	JP2022095515	8/23/2022			Pending	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/JP/PCT/1	79710-JP-PCT	Japan	5/21/2018	JP2019564423		JP7162016B2	10/19/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/SG/PCT/1	79710-SG-PCT	Singapore	5/21/2018	SG11201910934U		SG11201910934U	12/22/2022	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUGS	112051
CTVA/P/112051/US/CON/1	79710-US-CNT	United States of America	3/7/2019	US16295785	7/4/2019	US11000024B2	5/11/2021	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUGS	112051
CTVA/P/112051/US/CON/2	79710-US-CNT[2]	United States of America	4/9/2021	US17226222	7/29/2021			Pending	5/21/2038	SELECTIVE DETECTION OF BED BUGS	112051
CTVA/P/112051/US/UTL/1	79710-US-NP	United States of America	5/21/2018	US15985093	11/22/2018	US10271534B2	4/30/2019	Issued	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/US/PCT/1	79710-US-PCT	United States of America	5/21/2018	USPCT/US18/033679				Pending	5/21/2038	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/US/PRV/1	79710-US-PSP	United States of America	5/22/2017	US62/509501				Expired	5/22/2018	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051

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REEL: 066339 FRAME: 0611

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/112051/US/PRV/2	79710-US- PSP[2]	United States of America	10/26/2017	US62/577437				Expired	10/26/2018	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112051/WO/SEC/1	79710-WO-PCT	World Intellectual Property Organization (WIPO)/PCT	5/21/2018	PCT/US2018/033679	11/29/2018			Expired	12/22/2019	SELECTIVE DETECTION OF BED BUG PHEROMONES	112051
CTVA/P/112154/US/CON/1	80784-US-PCN	United States of America	3/22/2023	US18/124778				Pending	3/22/2043	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	112154
CTVA/P/112154/US/PCT/1	80784-US-PCT	United States of America	10/8/2018	US16/757476	6/24/2021			Pending	10/8/2038	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	112154
CTVA/P/112154/US/PRV/1	80784-US-PSP	United States of America	10/20/2017	US62/575222				Expired	10/20/2018	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	112154
CTVA/P/112154/WO/SEC/1	80784-WO-PCT	World Intellectual Property Organization (WIPO)/PCT	10/8/2018	PCT/US2018/054843	4/25/2019			Expired	5/20/2020	PEST CONTROL SYSTEM AND METHOD OF OPERATING SAME	112154
CTVA/P/112229/AU/PCT/1	81713-AU-PCT	Australia	4/2/2020	AU20200253522	11/4/2021			Pending	4/2/2040	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
CTVA/P/112229/CA/PCT/1	81713-CA-PCT	Canada	4/2/2020	CA3136819	10/8/2020			Pending	4/2/2040	ADAPTIVE ACTIVE	112229

PATENT

REEL: 066339 FRAME: 0612

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/112229/CN/PCT/1	81713-CN-PCT	China	4/2/2020	CN202080041249.0	1/14/2022			Allowed	4/2/2040	INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
CTVA/P/112229/EP/PCT/1	81713-EP-EPT	European Patent Office	4/2/2020	EP20781830.3	2/9/2022			Pending	4/2/2040	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
V/A/P/112229/HK/RG/1	81713-HK-FPR	Hong Kong	5/6/2022	HK 62022052999.9	6/24/2022			Pending	4/2/2040	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST	112229

PATENT

REEL: 066339 FRAME: 0613

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/112229/JP/PCT/1	81713-JP-PCT	Japan	4/2/2020	JP202159240	4/20/2022			Pending	4/2/2040	DETECTION STATION ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
CTVA/P/112229/MX/PCT/1	81713-MX-PCT	Mexico	4/2/2020	MX/a2021/012151				Pending	4/2/2040	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
CTVA/P/112229/NZ/PCT/1	81713-NZ-PCT	New Zealand	4/2/2020	NZ780911				Pending	4/2/2040	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
VA/P/112229/US/PCT/1	81713-US-PCT	United States of America	4/2/2020	US17600801	6/9/2022			Pending	4/2/2040	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN	112229

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REEL: 066339 FRAME: 0614

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/112229/US/PRV/1	81713-US-PSP	United States of America	4/3/2019	US62/828617				Expired	4/3/2020	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF RODENTS	112229
CTVA/P/112229/WO/SEC/1	81713-WO-PCT	World Intellectual Property Organization (WIPO)/PCT	4/2/2020	PCT/US2020/026343	10/8/2020			Expired	11/3/2021	ADAPTIVE ACTIVE INFRARED SENSOR HARDWARE AND SOFTWARE IN THE DETECTION OF PESTS WITH PEST DETECTION STATION	112229
CTVA/P/112276/AU/PCT/1	82654-AU-PCT	Australia	11/20/2019	AU20190384543	6/10/2021			Pending	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276
VA/P/112276/CA/PCT/1	82654-CA-PCT	Canada	11/20/2019	CA3120374	5/28/2020			Pending	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276
VA/P/112276/EP/PCT/1	82654-EP-EPT	European Patent Office	11/20/2019	EP19887922.3	9/29/2021			Pending	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276
VA/P/112276/JP/PCT/1	82654-JP-PCT	Japan	11/20/2019	JP2021528434	1/28/2022			Pending	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276
VA/P/112276/KR/PCT/1	82654-KR-PCT	Republic of Korea	11/20/2019	KR1020217018140	7/26/2021			Pending	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276
VA/P/112276/SG/PCT/1	82654-SG-PCT	Singapore	11/20/2019	SG11202105191V	6/29/2021			Pending	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276

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Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
CTVA/P/112276/US/CON/1	82654-US-PCN	United States of America	4/12/2022	US17718649	7/28/2022			Pending	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276
CTVA/P/112276/US/PCT/1	82654-US-PCT	United States of America	11/20/2019	US17295316	1/20/2022			Abandoned	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	112276
CTVA/P/112276/US/PRV/1	82654-US-PSP	United States of America	11/21/2018	US62/770413				Expired	11/21/2019	SELECTIVE DETECTION OF BEDBUGS	112276
CTVA/P/112276/WO/SEC/1	82654-WO-PCT	World Intellectual Property Organization (WIPO)/PCT	11/20/2019	PCT/US2019/062423	5/28/2020			Expired	6/21/2021	SELECTIVE DETECTION OF BEDBUGS	112276
CTVA/P/110255/ES/EPV/2	110255-ES-EPV-2	Spain	9/9/2009	ES17163236.7	8/23/2017	ES3207797		Expired	11/3/2035	PEST CONTROL DEVICE AND METHOD OF MONITORING POSITION OF SAME	110255
CTVA/P/110255/FR/EPV/2	110255-FR-EPV-2	France	9/9/2009	FR17163236.7	8/23/2017	FR3207797		Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/GB/EPV/2	110255-GB-EPV-2	United Kingdom	9/9/2009	GB17163236.7	8/23/2017	GB3207797		Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/110255/IT/EPV/2	110255-IT-EPV-2	Italy	9/9/2009	IT50202300044496	8/23/2017	IT3207797		Issued	9/9/2029	NETWORKED PEST CONTROL SYSTEM	110255
CTVA/P/112051/US/CON/3	112051-US-CON-3	United States of America	5/26/2023	18/202,681	10/26/2023			Issued	9/9/2029	PEST CONTROL SYSTEM	112051
CTVA/P/112276/US/CON/2	112276-US-CON-2	United States of America						Pending	5/21/2038	SELECTIVE DETECTION OF BEDBUGS	112276
CTVA/P/111885/US/PRV/1	78041-US-PSP	United States of America	10/2/2015	US62/236519				Drafting	11/20/2039	SELECTIVE DETECTION OF BEDBUGS	
CTVA/P/112259/US/PRV/1	82303-US-PSP	United States of America	10/30/2019	US62/927807				Expired	11/3/2035	PEST CONTROL DEVICE AND METHOD OF MONITORING	112229

PATENT

Patent: Asset Name	Case Reference	Jurisdiction	Filing Date	Application No.	Publication Date	Patent No.	Issue Date of Patent	Status	Expiration Date	Title	Family ID
										POSITION OF SAME	

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