

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5872702

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	CONFIRMATORY DEED OF ASSIGNMENT EFFECTIVE APRIL 8, 2019		
CONVEYING PARTY DATA			
Name			Execution Date
NOVARTIS AG			11/22/2019
RECEIVING PARTY DATA			
Name:	ALCON INC.		
Street Address:	RUE LOUIS-D'AFFRY 6		
City:	FRIBOURG		
State/Country:	SWITZERLAND		
Postal Code:	1701		
PROPERTY NUMBERS Total: 2			
Property Type	Number		
Patent Number:	6866661		
Patent Number:	8375956		
CORRESPONDENCE DATA			
Fax Number:	(216)579-6073		
<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>			
Phone:	216-579-1700		
Email:	cgilmore@pearne.com		
Correspondent Name:	PEARNE & GORDON LLP		
Address Line 1:	1801 EAST 9TH STREET		
Address Line 2:	SUITE 1200		
Address Line 4:	CLEVELAND, OHIO 44114-3108		
ATTORNEY DOCKET NUMBER:	BRAQ-J1427		
NAME OF SUBMITTER:	JOHN P. MURTAUGH		
SIGNATURE:	/johnpmurtaugh/		
DATE SIGNED:	12/17/2019		
Total Attachments: 21			
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[Step 2]

Confirmatory Deed of Assignment
United States of America

THIS DEED is made between:

Novartis AG, a company duly organized and existing under the Laws of Switzerland, of *4002 Basel, Switzerland*

("the Assignor");

and

Alcon Inc., a company duly organized and existing under the Laws of Switzerland, of *Rue Louis-d'Affry 6, 1701 Fribourg, Switzerland*

("the Assignee");

WHEREAS:

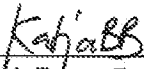
- (a) The Assignor was the proprietor of the patents in the United States of America as set out in the attached schedules marked "Annex A" and
- (b) Pursuant to the Intellectual Property Assignment Agreement dated April 8th, 2019, Assignor has assigned Assignor's entire right, title and interest in and to the patents to Assignee.
- (c) The Assignment of the afore-mentioned patents became effective on the 8th day of April 2019.

IT IS AGREED THAT:

For good and valuable consideration, receipt of which is hereby acknowledged by the Assignor, the Assignor hereby confirms that it has assigned, transferred and set over unto the Assignee, its successors and assigns, effective on April 8th, 2019, all right, title and interests in the **United States of America** in the patents together with the goodwill of the business represented and symbolised by the patents and the Assignee accepts the said assignment.

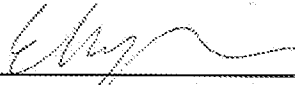
IN WITNESS WHEREOF, the Assignor and Assignee have caused this Confirmatory Assignment to be executed by their authorized representatives.

Signed as a Deed in Ljubljana on behalf of
the **Assignor** this 22 day of November 2019
by



Katja Berk Bevc, Proxy-Holder of
Novartis AG

Signed as a Deed in Ljubljana on behalf of
the **Assignee** this 22 day of November 2019
by



Eva Margareta Krisper, Proxy-Holder of
Alcon Inc.

Annex A

IP Right Name	Application No.	Publication No.	Grant No.
EYE REGISTRATION AND ASTIGMATISM ALIGNMENT CONTROL SYSTEMS AND METHOD	10/733874	2004-0143245	6866661
EYE REGISTRATION SYSTEM FOR REFRACTIVE SURGERY AND ASSOCIATED METHODS	12/777325	2010-0220181	8375956

POWER OF ATTORNEY

THIS DEED made on July 30th, 2019 on behalf of:

- **Alcon-Couvreur N.V.** a company organized and existing under the laws of Belgium
- **Alcon Grieshaber AG**, a company organized and existing under the laws of Switzerland;
- **Alcon Healthcare**, a company organized and existing under the laws of Spain;
- **Alcon Inc. (CH)**, a company organized and existing under the laws of Switzerland;
- **Alcon Lensx, Inc.**, a company organized and existing under the laws of the State Delaware, USA;
- **Alcon Pharmaceuticals Ltd.**, a company organized and existing under the laws of Switzerland;
- **Alcon Portugal-Produtos e Equipamentos Oftalmológicos Lda.** a company organized and existing under the laws of Portugal;
- **Alcon (Puerto Rico), Inc.**, a company organized and existing under the laws of the State Delaware, USA;
- **Alcon Refractive Horizons, LLC**, a company organized and existing under the laws of the State Delaware, USA;
- **Alcon Research, LLC**, a company organized and existing under the laws of the State Delaware, USA;
- **Alcon Vision, LLC**, a company organized and existing under the laws of the State Delaware, USA;
- **CIBA Vision GmbH**, a company organized and existing under the laws of Germany;
- **Ciba Vision, LLC**, a company organized and existing under the laws of the State Delaware, USA;
- **Clarvista Medical, Inc.**, a company organized and existing under the laws of the State Delaware, USA;
- **Optonol Ltd.**, a company organized and existing under the laws of Israel;
- **PowerVision, Inc.**; a company organized and existing under the laws of the State Delaware, USA;
- **Tear Film Innovations, Inc.**, a company organized and existing under the laws of the State Delaware, USA;
- **Transcend Medical, Inc.**, a company organized and existing under the laws of the State Delaware, USA;
- **TrueVision Systems, Inc.**, a company organized and existing under the laws of the State Delaware, USA;
- **WaveLight GmbH**, a company organized and existing under the laws of Germany;

(each of the above companies shall be individually and collectively referred to hereafter as "the Company")

WITNESSETH as follows:

1. Appointment

Each company hereby appoints

- Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Katarina Urbanija, born on May 6th, 1975, General Manager of Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Ana Bobnar, born on January 7th, 1990, Trademark Assistant at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Eva Margareta Krisper, born on February 7th, 1991, Trademark Assistant at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Maja Babnik, born on May 29th, 1993, Trademark Assistant at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Katja Berk Bevc, born on March 28th, 1991, Trademark Assistant at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Matjuša Jakopin, born on November 15th, 1984, Trademark Attorney at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Vesna Dumendžić, born on July 14th, 1984, Trademark Attorney at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Urban Tavčar, born on June 3rd, 1980, Head of Docketing at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia

to act on behalf of the company in respect of exclusively the recordal/submission of

- ☒ assignment
- ☒ merger
- ☒ change of name
- ☒ change of legal entity
- ☒ change of address
- ☒ renewals and other related maintenance tasks (such as reclassification, affidavits, annuity payments, merging of registrations, etc.)
- ☒ licenses and sub-licenses

of the trademarks, patents, designs and other intellectual property rights of the company.

For the aforesaid purpose, we hereby authorize said agents to appoint a substitute, or substitutes, to execute and amend any documents in order to maintain our trademarks, patents, designs and other intellectual property rights in force.

This Power of Attorney is valid until 31st December 2019 and supersedes as of its effective date all previous versions of Power of Attorney relating to the subject matter herein.

IN WITNESS WHEREOF this Deed has been executed for and on behalf of the Company on the day and year before written.

Munich, July 30th, 2019
(Place and Date)



Anna Popova, Proxy-Holder

PATENT

REEL: 051331 FRAME: 0306

File No. [see above] dating from [see above and below]

Sachbearbeiter: sm

Delet TX000410.DOC Vagang Brand-
stock 2015 07 30 09.00. Beres 30 Juli 2015

City of München [Munich]

I herewith certify, that

Mrs

Given Names:	Anna (Ganna)
Family Name:	Popova
Date of Birth [Day, Month, Year]:	6.4.1982
Address [street and house number]:	Rückertstr. 1
[postal code and city]:	80336 München (Munich)

personally known to me, the notary, has subscribed and sworn (affirmed) today the foregoing document in front of me.

30th day of September, two thousand nineteen

Peter DiCesare

Dr. Peter Dillinger as official representative of
Dr. Heinrich Kreuzer, Notary

Perusastr. 7 [street and house number].

D-80333 München (Munich) [postal code and city]

☎ +49 (89) 290 916-0, Fax -66; notar@kreuzer-muenchen.de

the law of the state in which this document shall be used it may be necessary that my -
notary signature get legalized. Competent therefore is usually the President of the court „Landgericht
München I“ here in Munich, Palace of Justice, Prielmayerstr.7, D-80335 München.

Original: --> versandt / ausgeh. | sent to / handed out to Brandslock

Scan:

☒ Urkundensammlung | file-collection of the notary

REEL: 051331 FRAME: 0307

APOSTILLE

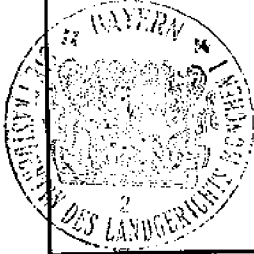
(Convention de La Haye du 5 octobre 1961)

1. Land: Bundesrepublik Deutschland
Diese öffentliche Urkunde
2. ist unterschrieben von Vorsitzender Richter am
Oberlandesgericht a.D. Dr. Peter Dillinger
3. in seiner Eigenschaft als amtlich bestellter Vertreter.
4. Sie ist versehen mit dem Siegel des Notars Dr. Heinrich
Kreuzer in München

Bestätigt

5. in München
6. am 19. August 2019
7. durch die Präsidentin des Landgerichts München I
8. unter Nr. 910 a 10488/2019
9. Siegel
10. Unterschrift

Im Auftrag




Marcel Rahn
Justizhauptsekretär

PATENT

REEL: 051331 FRAME: 0308



The State of Texas

Secretary of State

Not for use within the United States of America

This Apostille only certifies the signature, the capacity of the signer and the seal or stamp it bears. It does not certify the content of the document for which it was issued.

Certificate Validation available at www.sos.state.tx.us

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

- | | |
|--------------------------------|---|
| 1. Country | United States of America |
| This public document | |
| 2. has been signed by | BARBARA MCKENZIE |
| 3. acting in the capacity of | Notary Public, State of Texas |
| 4. and bears the seal/stamp of | BARBARA MCKENZIE,
Notary Public, State of Texas,
Commission Expires: 11-18-21 |

CERTIFIED

- | | |
|---------------------------------------|-------------------------|
| 5. at Austin, Texas | 6. on September 9, 2019 |
| 7. by the Secretary of State of Texas | |
| 8. Certificate No. 11797522 | |
| 9. Seal | 10. Signature: |



A handwritten signature in black ink, appearing to read "Ruth R. Hughes".

Ruth R. Hughes
Secretary of State

GF/aw

PATENT

REEL: 051331 FRAME: 0309

The State of Texas §
County of Tarrant §

BEFORE ME, Notary Public for and in Fort Worth, Texas, on this date personally appeared Christine Bohmann and Patrick M. Ryan known to me or proved to me on the basis of satisfactory evidence to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that he executed the same of the purposes and consideration therein expressed. Given under my hand and seal of office this 29th day of August, 2019.

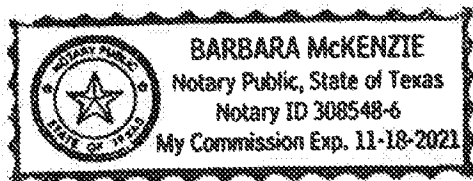
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal this 29th day of August, 2019, at Fort Worth, Texas.


NOTARY PUBLIC

Barbara McKenzie
Printed Name of Notary Public

Notary Commission Expires: November 18, 2021

[SEAL]



POWER OF ATTORNEY

THIS DEED made on the 20th day of August, 2019, by:

- Alcon-Couvreur N.V., a company organized and existing under the laws of Belgium;
- Alcon Grieshaber AG, a company organized and existing under the laws of Switzerland;
- Alcon Healthcare, a company organized and existing under the laws of Spain
- Alcon Inc. (CH), a company organized and existing under the laws of Switzerland;
- Alcon Lensx, Inc., a company organized and existing under the laws of the State Delaware, USA;
- Alcon Pharmaceuticals Ltd., a company organized and existing under the laws of Switzerland;
- Alcon Portugal-Produtos e Equipamentos Oftalmológicos Lda, a company organized and existing under the laws of Spain
- Alcon (Puerto Rico), Inc., a company organized and existing under the laws of the State Delaware, USA;
- Alcon RefractiveHorizons, LLC, a company organized and existing under the laws of the State of Delaware, USA;
- Alcon Research, LLC, a company organized and existing under the laws of the State Delaware, USA;
- Alcon Vision, LLC, a company organized and existing under the laws of the State Delaware, USA;
- CIBA Vision GmbH, a company organized and existing under the laws of Germany;
- CIBA Vision, LLC, a company organized and existing under the laws of the State Delaware, USA;
- Clarvista Medical, Inc., a company organized and existing under the laws of the State Delaware, USA;
- Optonol Ltd., a company organized and existing under the laws of Israel;
- PowerVision, Inc., a company organized and existing under the laws of the State of Delaware, USA;
- Tear Film Innovations, Inc., a company organized and existing under the laws of the State Delaware, USA;
- Transcend Medical, Inc., a company organized and existing under the laws of the State Delaware, USA;
- TrueVision Systems, Inc., a company organized and existing under the laws of the State Delaware, USA;
- WaveLight GmbH, a company organized and existing under the laws of Germany;

(each of the above companies shall be individually and collectively referred to hereafter as "the Company")

WITNESSETH as follows:

I. Appointment

Each company hereby appoints

- Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
and/or
- Dr. Volker Spitz, born on January 17th, 1961, CEO of Brandstock Services AG, with business
address at Rückertstr. 1, 80336 München, Germany
and/or
- Laura Morris, born on June 26, 1980, Director Renewals at Brandstock Services AG, with business
address at Rückertstr. 1, 80336 München, Germany
and/or
- Anna (Ganna) Popova, born on April 6th, 1982, Director IP Recordals at Brandstock Services AG,
with business address at Rückertstr. 1, 80336 München, Germany
and/or
- Faustine Waternaux, born on May 10, 1981, Renewals Project Leader at Brandstock Services AG,
with business address at Rückertstr. 1, 80336 München, Germany
and/or
- Alizée Mothion, born on April 14, 1988, Renewals Project Leader at Brandstock Services AG,
with business address at Rückertstr. 1, 80336 München, Germany
and/or
- Michal Moican, born on February 09th, 1988, Project Leader in IP Recordals Department of
Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
and/or
- Juliane Weiß, born on May 17th, 1991, Project Leader in IP Recordals Department of Brandstock
Services AG, with business address at Rückertstr. 1, 80336 München, Germany

to act on behalf of the company in respect of exclusively the recordal/submission of

- ☒ assignment
- ☒ merger
- ☒ change of name
- ☒ change of legal entity
- ☒ change of address
- ☒ renewals and other related maintenance tasks (such as reclassification, affidavits, annuity
payments, merging of registrations, etc.)
- ☒ licenses and sub-licenses

of the trademarks, patents, designs and other intellectual property rights of the Company.

For the aforesaid purpose, we hereby authorize said agents to appoint a substitute, or substitutes, to execute and amend any documents in order to maintain our trademarks, patents, designs and other intellectual property rights in force.

IN WITNESS WHEREOF this Deed has been executed for and on behalf of the Company on the day and year before written.

Fort Worth, Texas

Fort Worth, Texas

C. Bohmann 08/29/19

Christine Bohmann
Head Legal IP and Assistant Secretary

Patrick M. Ryan 8/29/19

Patrick M. Ryan
Head Patent Strategy and Operations

POWER OF ATTORNEY

THIS DEED made on July 30th, 2019 on behalf of:

- **Novartis AG**, a company organized and existing under the laws of Switzerland;
- **Novartis Pharma AG**, a company organized and existing under the laws of Switzerland;
- **Novartis Pharmaceuticals Corporation.**, a company organized and existing under the laws of the State Delaware, USA;
- **Novartis Pharma S.A.S.** a company organized and existing under the laws of France;

(each of the above companies shall be individually and collectively referred to hereafter as "the Company")

WITNESSETH as follows:

1. Appointment

Each company hereby appoints

- Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Katarina Urbanija, born on May 6th, 1975, General Manager of Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Ana Bobnar, born on January 7th, 1990, Trademark Assistant at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
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and/or
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- Katja Berk Bevc, born on March 28th, 1991, Trademark Assistant at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Matjuša Jakopin, born on November 15th, 1984, Trademark Attorney at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Vesna Dumendžić, born on July 14th, 1984, Trademark Attorney at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia
and/or
- Urban Tavčar, born on June 3rd, 1980, Head of Docketing at Brandstock Services GmbH, with business address at Cesta v Gorice 34b, 1000 Ljubljana, Slovenia

to act on behalf of the company in respect of exclusively the recordal/submission of

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- ☒ change of legal entity
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- ☒ renewals and other related maintenance tasks (such as reclassification, affidavits, annuity payments, merging of registrations, etc.)
- ☒ licenses and sub-licenses

of the trademarks, patents, designs and other intellectual property rights of the company, and for no other purpose.

For the aforesaid purpose, we hereby authorize said agents to appoint a substitute, or substitutes, to execute and amend any documents in order to maintain our trademarks, patents, designs and other intellectual property rights in force.

This Appointment is revocable at any time and supersedes as of its effective date all previous such appointments and/or power of attorney relating to the subject matter of this deed.

IN WITNESS WHEREOF this Deed has been executed for and on behalf of the Company on the day and year before written.

Munich, July 30th, 2019
(Place and Date)



Anna Popova, Proxy-Holder

UrkRNR. 3453

vom 30. Juli 2019

File No [see above] dating from [see above and below]

Notar Dr. Heinrich Kreuzer
Perusastr. 7, D 80333 München
☎ +49 89 290 916-0 Fax -66
notar@kreuzer-muenchen.de

Sachbearbeiter: sm

Dated TX00004000 Vorgang Brand-
stock 20190730 (Dated 30 July 2019)

Country of Bavaria (Germany)

City of München [Munich]

I herewith certify, that

Mrs

Given Names:

Anna (Ganna)

Family Name:

Popova

Date of Birth [Day, Month, Year]: 6.4.1982

Address [street and house number]: Rückertstr. 1

[postal code and city]:

80336 München (Munich)

personally known to me, the notary, has subscribed and sworn (affirmed) today the foregoing document in front of me.

July

day of September, two thousand nineteen

Peter Dillinger

Dr. Peter Dillinger as official representative of
Dr. Heinrich Kreuzer, Notary

Perusastr. 7 [street and house number],

D-80333 München (Munich) [postal code and city]

☎ +49 (89) 290 916-0, Fax -66; notar@kreuzer-muenchen.de

Hint: As to the law of the state in which this document shall be used it may be necessary that my -
notary's - signature gets legalized. Competent therefore is usually the President of the court „Landgericht
München I“ here in Munich, Palace of Justice, Prielmayersstr.7, D-80335 München.

Original: → versandt / ausgehändigt an | sent to / handed out to Brandstock

Scan:

☐ Urkundensammlung | file-collection of the notary

PATENT

REEL: 051331 FRAME: 0315

APOSTILLE

(Convention de La Haye du 5 octobre 1961)

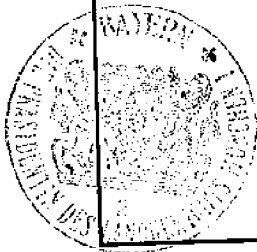
1. Land: Bundesrepublik Deutschland
Diese öffentliche Urkunde
2. ist unterschrieben von Vorsitzender Richter am
Oberlandesgericht a.D. Dr. Peter Dillinger
3. in seiner Eigenschaft als amtlich bestellter Vertreter.
4. Sie ist versehen mit dem Siegel des Notars Dr. Heinrich
Kreuzer in München

Bestätigt

5. in München
6. am 19. August 2019
7. durch die Präsidentin des Landgerichts München I
8. unter Nr. 910 a 10487/2019
9. Siegel
10. Unterschrift

Im Auftrag


Marcel Rahn
Justizhauptsekretär



PATENT

REF: 051224 FRAME: 0316

APOSTILLE

(CONVENTION DE LA HAYE DU 5 OCTOBRE 1961)

1. COUNTRY: UNITED STATES OF AMERICA
2. THIS PUBLIC DOCUMENT HAS BEEN SIGNED BY:
LILA E FREEMAN
3. ACTING IN THE CAPACITY OF:
NOTARY PUBLIC OF NEW JERSEY
4. BEARS THE SEAL/STAMP OF:
LILA E FREEMAN, NOTARY

CERTIFIED

5. AT TRENTON, NEW JERSEY
6. THE 21ST DAY OF MAY 2019
7. BY: Elizabeth Maher Muoio
State Treasurer
8. NO: A684153
9. SEAL/STAMP:
10. SIGNATURE



A handwritten signature in black ink, appearing to read "Elizabeth Maher Muoio".

Elizabeth Maher Muoio
State Treasurer

Certificate Number: 141413943

Verify this certificate at
https://www1.state.nj.us/TYTR_StandingCert/JSP/Verify_Cert.jsp

POWER OF ATTORNEY

THIS DEED made on the 15th of May 2019:

- Novartis AG, a company organized and existing under the laws of Switzerland;
- Novartis Pharma AG, a company organized and existing under the laws of Switzerland;
- Novartis Pharmaceuticals Corporation, a company organized and existing under the laws of the State Delaware, USA;

(each of the above companies shall be individually and collectively referred to hereafter as "the Company")

WITNESSETH as follows:

1. Appointment

Each company hereby appoints

- Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
- and/or
- Dr. Volker Spitz, born on January 17th, 1961, CEO of Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
- and/or
- Laura Morris, born on June 26, 1980, Director Renewals at Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
- and/or
- Anna (Ganna) Popova, born on April 6th, 1982, Director IP Recordals at Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
- and/or
- Faustine Waternaux, born on May 10, 1981, Renewals Project Leader at Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
- and/or
- Alizée Mothion, born on April 14, 1988, Renewals Project Leader at Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
- and/or
- Michal Molcan, born on February 09th, 1988, Project Leader in IP Recordals Department of Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany
- and/or
- Juliane Weiß, born on May 17th, 1991, Project Leader in IP Recordals Department of Brandstock Services AG, with business address at Rückertstr. 1, 80336 München, Germany

to act on behalf of the company in respect of exclusively the recordal/submission of

- ☒ assignment
- ☒ merger

- ☒ change of name
- ☒ change of legal entity
- ☒ change of address
- ☒ renewals and other related maintenance tasks (such as reclassification, affidavits, annuity payments, merging of registrations, etc.)
- ☒ licenses and sub-licenses

of the trademarks, patents, designs and other intellectual property rights of the company, and for no other purpose.

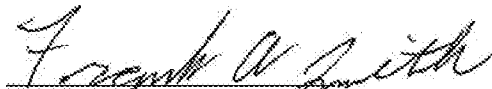
For the aforesaid purpose, we hereby authorize said agents to appoint a substitute, or substitutes, to execute and amend any documents in order to maintain our trademarks, patents, designs and other intellectual property rights in force.

This Appointment is revocable at any time and supersedes as of its effective date all previous such appointments and/or powers of attorney relating to the subject matter of this deed.

IN WITNESS WHEREOF this Deed has been executed for and on behalf of the Company on the day and year before written.

East Hanover, United States, 15th May 2019

Novartis AG


Frank A. Smith

Authorized Signatory
VP, IP Transactions

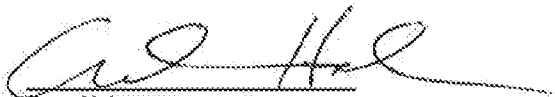

Dillon Kim

Authorized Signatory
Group IP Litigation and Transactions

[See Next Page for Additional Signatures]

East Hanover, United States, 16th May 2019

Novartis Pharma AG


Drew Holmes

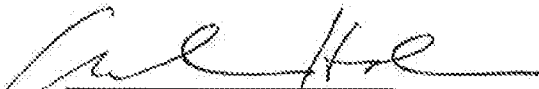
Authorized Signatory
Senior Patent Attorney


Gregory Ferraro

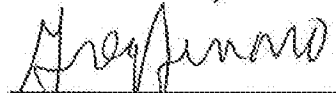
Authorized Signatory
Senior Patent Attorney

East Hanover, United States, 16th May 2019

Novartis Pharmaceutical Corporation


Drew Holmes

Authorized Signatory
Senior Patent Attorney

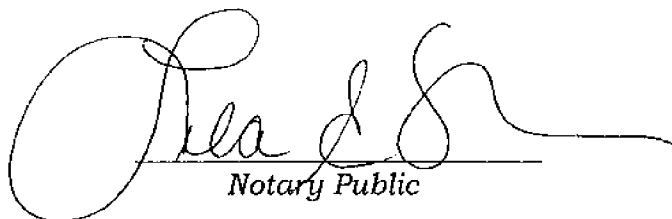

Gregory Ferraro

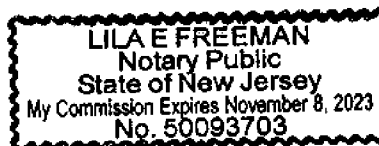
Authorized Signatory
Senior Patent Attorney

State of New Jersey)
)SS:
County of Middlesex)

On this 15th day of May, 2019, before me, **Lila E. Freeman** a notary public, the undersigned, **Frank A. Smith** and **Dillon Kim** personally appeared, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

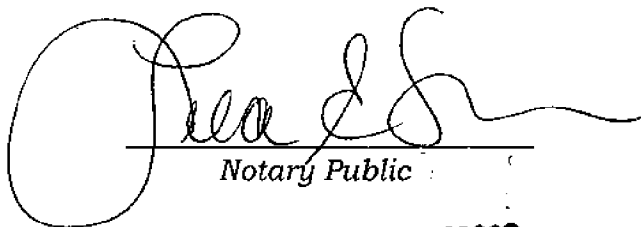

Notary Public



State of New Jersey)
)SS:
County of Middlesex)

On this 16th day of May, 2019, before me, **Lila E. Freeman** a notary public, the undersigned, **Drew Holmes**, and **Gregory Ferraro** personally appeared, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.



Notary Public

