

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | MERCK PERFORMANCE MATERIALS GERMANY GMBH | 01/23/2020 |
| RECEIVING PARTY DATA | | |
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| State/Country: | GERMANY | |
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| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
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| DATE SIGNED: | 07/07/2021 | |
| Total Attachments: 3 | | |
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PATENT ASSIGNMENT

WHEREAS, Merck Performance Materials Germany GmbH, a limited liability company of Germany, having a place of business at Frankfurter Strasse 250, 64293 Darmstadt, Germany, (hereinafter "Assignor"), is the owner by a lawfully executed Assignment of all rights, title and interest in an invention(s), which invention(s) is described in an application(s) for Letters Patent, which application(s) are listed in the attached Schedule as may be amended from time-to-time; and

WHEREAS, Assignor and Merck Patent GmbH of Frankfurter Strasse 250, 64293 Darmstadt, Germany, a limited liability company organized and existing under the laws of Germany (hereinafter "Merck Patent") have entered into an agreement (hereinafter "Agreement") pursuant to which, the parties agree that the rights and interests of the Assignor in and to the invention, application(s) and Letters Patent therefor (hereinafter "Invention") shall be the same during the period that Merck Patent owns legal title to the Invention as Assignor's rights and interests were prior to this fiduciary transfer of the legal title to the Invention to Merck Patent and that the fiduciary transfer of the legal title to the Invention to Merck Patent shall not result in any person or entity, including but not limited to Merck Patent, acquiring all or any portion of the rights of the Assignor in and to the Invention. These rights include, but are not limited to, the Assignor's right to exploit the Invention in any manner that Assignor shall choose, the Assignor's right to receive and to control all of the revenues attributable to the exploitation of the Invention, and the Assignor's right to decide which entities, if any, shall be allowed to exploit the Invention and to negotiate and to decide the terms under which the Invention shall be made available for exploitation by any such entities; and

WHEREAS, the purpose of this Patent Assignment is to incorporate the aforementioned Invention into the Agreement.

NOW, THEREFORE, pursuant to the above Agreement, the Assignor has assigned and transferred, and hereby assigns and transfers unto Merck Patent the worldwide title to the Invention, and the title to and under the application(s) and any and all Letters Patent(s) that may be granted on the application(s), any and all priority applications and Letters Patent thereof, any and all divisions or continuations thereof, any and all renewals, substitutes, reissues, reexaminations and extensions thereof, in the United States of America, in the territorial possessions of the United States of America, and equivalents thereto in any country foreign to the United States of America, including full right to claim for any such applications all benefits and priority rights under any applicable convention, the same to be held by Merck Patent for the enjoyment of Assignor, its lawful successors and assigns, as fully and entirely as the same would have been held by Assignor had this assignment not been made.

AND, Assignor hereby authorizes and requests the Commissioner of Patent and Trademarks of the United States of America and respective Patent Office officials in any country foreign to the United States of America to issue said Letters Patent to Merck Patent as the assignee of Assignor's title to and under the same, and Assignor hereby further authorizes Merck Patent to apply for Letters Patent in Assignor's name or in its own name, as Merck Patent in its sole discretion sees fit, utilizing any benefits which may exist under any International Agreement, in any country.

AND, Assignor does hereby agree to execute any lawful document and to testify as to any material fact or thing which Merck Patent may deem necessary in order to secure unto Merck Patent the title to said Invention or any part thereof, the same to be done without any further consideration. And Merck Patent does hereby agree to execute any lawful document and to testify as to any material fact or thing which

Assignor may deem necessary in order to secure unto Assignor the rights to said Invention or any part thereof, the same to be done without any further consideration.

IN TESTIMONY WHEREOF, I hereby set my hand behalf of **Merck Performance Materials Germany GmbH**, this

23 day of January, 2020.

Signature: ppa. [Signature] ppa. [Signature]

Name and Title: Dr. Wolfgang Losert Dr. Stefan Horstmann

Witnesses: I attest that on this day, the above person on behalf of **Merck Performance Materials Germany GmbH** did sign above in my presence of his/her own free will.

Witness Signature: [Signature]

Witness Name: Pia Reinhart

Date: 23.01.2020

Witness Signature: [Signature]

Witness Name: Claudia Spengler

Date: 23.01.20

IN TESTIMONY WHEREOF, I hereby set my hand behalf of **Merck Patent GmbH** this 28 day of

January, 2020.

Signature: ppa. [Signature] i.v. [Signature]

Name and Title: Dr. Sabine Schoen Dr. Peter Selg
Senior Director Director

Witnesses: I attest that on this day, the above person on behalf of **Merck Patent GmbH** did sign above in my presence of his/her own free will.

Witness Signature: [Signature]

Witness Name: Martina Bopp

Date: 28.01.20

Witness Signature: [Signature]

Witness Name: Heike Blümner

Date: 28.01.20

SCHEDULE

| Application No.: | Country | Title | Filing Date | Inventor(s) |
|-------------------|---------|--|----------------|--|
| PCT/EP2019/071385 | WO | POLYMERIZABLE LIQUID CRYSTAL MATERIAL AND POLYMERIZED LIQUID CRYSTAL FILM | August 9, 2019 | Yong-Hyun Choi Jae-Hyun Kang Hyun-Jin Yoon |

Date: June 30, 2021