505648397 08/30/2019

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| TAMON ITAHASHI | 08/21/2019 |
| DAVID P. MCNAUGHTON | 08/21/2019 |
| KOICHIRO TAJIMA | 08/09/2019 |
| C. MICHAEL WALKUP | 08/21/2019 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16489197 |

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: | SCA.P.US0019

PATENT REEL: 050219 FRAME: 0218

| NAME OF SUBMITTER: | RODNEY L. SKOGLUND | |
|--|--------------------|--|
| SIGNATURE: /Rodney L. Skoglund/ | | |
| DATE SIGNED: | 08/30/2019 | |
| Total Attachments: 1 source=Joint Assignors Assignment (plural) (LINTEC)#page1.tif | | |

PATENT REEL: 050219 FRAME: 0219

ASSIGNMENT

We, Tamon Itahashi, David P. McNaughton, Koichiro Tajima and C. Michael Walkup, have made an invention that is described and claimed in a patent application entitled "NOVOLAK RESINS AND USE IN RUBBER COMPOSITIONS," said application

[] is being executed and filed concurrently herewith.

[X] was filed on $\frac{08/27/2019}{16/489,197}$ and now is designated as United States patent application number

NOW THEREFORE, pursuant to the obligations imposed by or arising under one or more of our employment agreement(s), advisor agreement(s), state or national statutes, common law, administrative regulation, and/or other good and valuable consideration, the receipt of which is hereby acknowledged, we hereby make the following assignments —

To each of Sumitomo Chemical Advanced Technologies LLC, doing business as Sumika Electronic Materials, a company organized and existing under the laws of the State of Deleware, and having a place of business at 3832 East Watkins, Phoenix, Arizona 85034, U.S.A., and its successors and assigns, and Sumitomo Chemical Company, Limited, a company duly organized under the laws of Japan, and having a place of business at 27-1, Shinkawa 2-Chome, Chuo-ku, Tokyo 104-8260, Japan, and its successors and assigns, who will be collectively referred to herein as the Assignces, and who will each receive a one-half undivided interest, each having a one-half, undivided interest, we hereby

- > assign, transfer, and set over the full and exclusive right to the above-identified invention, and to the above-identified patent application, any non-provisional, substitute, continuation, continuation-in-part, or divisional application filed thereon, and to any letters patent of the United States that issues from or claims priority to said application(s), as well as any reissue application or request for reexamination filed on such letters patent;
- > covenant and agree for ourselves and our legal representative(s) to
 - a) assist said assignee and/or its designee(s), to the extent requested, in the prosecution of any patent applications contemplated by this Assignment, in any patent office proceeding on said patent application or patent issuing therefrom, or in litigation that arises out of or is based on said patent application or patent issuing therefrom, and
 - b) execute all papers related to patent applications contemplated by this Assignment that said assignee or its designee(s) request to be signed, provided that expenses relating thereto shall be borne by said assignee; and
- > authorize and request the Commissioner of Patents and Trademarks to issue any letters patent of the United States relating to the above-identified invention in the name of said assignee.

IN WITNESS WHEREOF, we have executed this document on the date indicated.

Name: Tamon Itahashi date

Witness Name:

August 1th, 2019

Name: Koichiro Tajima date

Witness Name:

Witness Name:

Witness Name:

Witness Name:

Witness Name:

C. Michael Walkup date

Witness Name:

August 1th, 2019

Witness Name:

Witness Name:

date

PATENT REEL: 050219 FRAME: 0220