505198622 11/20/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

rsion v1.1 EPAS ID: PAT5245391

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| KOK CHYWN CHUANG | 06/29/2018 |
| MAHMOUD K. SERAJ | 07/18/2018 |

RECEIVING PARTY DATA

| Name: | me: TE CONNECTIVITY CORPORATION | |
|-----------------|---------------------------------|--|
| Street Address: | 1050 WESTLAKES DRIVE | |
| City: | BERWYN | |
| State/Country: | PENNSYLVANIA | |
| Postal Code: | 19312 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15720694 |

CORRESPONDENCE DATA

Fax Number: (919)854-1401

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.

Phone: 3026332770

Email: mderosa@myersbigel.com

Correspondent Name: TYCO ELECTRONICS TECHNOLOGY RESOURCES INC.

Address Line 1: 4550 NEW LINDEN HILL ROAD

Address Line 2: SUITE 140

Address Line 4: WILMINGTON, DELAWARE 19808

| ATTORNEY DOCKET NUMBER: | DCKET NUMBER: EN-00543-US/5487-403 | |
|-------------------------|--|--|
| NAME OF SUBMITTER: | MEREDITH DEROSA | |
| SIGNATURE: | /mld/ | |
| DATE SIGNED: | 11/20/2018 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 3

source=5487-403_Combined_Dec_Assgn#page1.tif source=5487-403_Combined_Dec_Assgn#page2.tif source=5487-403_Combined_Dec_Assgn#page3.tif

PATENT 505198622 REEL: 047550 FRAME: 0384

Attorney Docket No.: EN-00543-US/5487-403

COMBINED DECLARATION AND ASSIGNMENT

| As a | below named and signing inventor, I hereby declare that: |
|--------|---|
| this d | leclaration is directed to inventions and improvements disclosed in: |
| | the attached application, or United States application number 15/720,694 filed on September 29, 2017, |
| | led: HOLDOUT SUPPORTS AND PRE-EXPANDED UNITS AND METHODS INCLUDING |
| SAN | IE ("the APPLICATION"); |

the APPLICATION was made or authorized to be made by me;

I believe that I am the original inventor or an original joint inventor of a claimed invention in the APPLICATION;

I have reviewed and understand the contents of the APPLICATION, including the claims, and I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56; and

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five (5) years, or both.

As a below named and signing inventor, acknowledging that I have assigned or have obligations to assign the APPLICATION to:

TE CONNECTIVITY CORPORATION ("ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the Commonwealth of Pennsylvania, having its principal place of business at 1050 Westlakes Drive, Berwyn, PA 19312,

for a valuable consideration, the receipt of which is hereby acknowledged, I do hereby sell, assign, transfer, and set over unto the said ASSIGNEE, its successors and assigns, my full and entire right, title and interest in and to the APPLICATION, the inventions and improvements disclosed in the APPLICATION, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries, including all priority rights under the International Convention, and all reissues, re-examinations, renewals or extensions thereof; and I hereby authorize and request the United States Patent and Trademark Office and/or other patent office(s) to issue said Letters Patent to said ASSIGNEE, its successors and assigns, in accordance with this assignment.

| LEGAL NAME OF FIRST INVENTOR | KOK CHYWN CHUANG | |
|--|--|--|
| SIGNATURE | Lolly Chy 1 DATE 6/29/2018 | |
| STATE OF NORTH CA | <u>&inia</u>) | |
| Before me personally appea | red the person described in and who executed the foregoing | |
| instrument, and he/she acknowledged to me that he/she executed the same for the purposes therein stated, this 29 day of June, 2017. 2018 | | |
| | Audrey W. Carrolius) Notary Public | |
| SEAL My Commission Expires: _ | July 13, 2019 | |

Attorney Docket No.: EN-00543-US/5487-403

| LEGAL NAME OF THIRD INVENTOR | MAHMOUD K. SERAJ |
|---------------------------------|---|
| SIGNATURE | Mdruged Sons DATE 01/18/2018 |
| STATE OF NORTH C | ARDUNA)) |
| instrument, and he/she ackr | nred the person described in and who executed the foregoing nowledged to me that he/she executed the same for the purposes day of July 2017. 2018 asset |
| SEAL. My Commission Expires: | July 13, 2019 |

PATENT REEL: 047550 FRAME: 0387