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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | SECURITY INTEREST |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------------------|----------------|
| DIRTT ENVIRONMENTAL SOLUTIONS LTD | 07/19/2019 |

RECEIVING PARTY DATA

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| Name: | ROYAL BANK OF CANADA |
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| City: | CALGARY |
| State/Country: | CANADA |
| Postal Code: | T2P 1C9 |

PROPERTY NUMBERS Total: 124

| Property Type | Number |
|----------------|----------|
| Patent Number: | 10301821 |
| Patent Number: | 10273743 |
| Patent Number: | 10196825 |
| Patent Number: | RE47132 |
| Patent Number: | 10058170 |
| Patent Number: | 10030384 |
| Patent Number: | RE46929 |
| Patent Number: | 9945131 |
| Patent Number: | 9943165 |
| Patent Number: | 9856644 |
| Patent Number: | 9840841 |
| Patent Number: | 9803360 |
| Patent Number: | 9803352 |
| Patent Number: | 9719251 |
| Patent Number: | 9670669 |
| Patent Number: | 9649831 |
| Patent Number: | 9619920 |
| Patent Number: | 9617743 |
| Patent Number: | 9593481 |

| Property Type | Number |
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| Patent Number: | 9536340 |
| Patent Number: | 9528287 |
| Patent Number: | 9471719 |
| Patent Number: | D760402 |
| Patent Number: | 9355197 |
| Patent Number: | 9347218 |
| Patent Number: | D755614 |
| Patent Number: | D754991 |
| Patent Number: | 9328542 |
| Patent Number: | 9328504 |
| Patent Number: | D753943 |
| Patent Number: | 9315997 |
| Patent Number: | 9315985 |
| Patent Number: | 9307701 |
| Patent Number: | 9270098 |
| Patent Number: | D745706 |
| Patent Number: | 9206612 |
| Patent Number: | 9194121 |
| Patent Number: | 9095990 |
| Patent Number: | D734958 |
| Patent Number: | D734872 |
| Patent Number: | 9084489 |
| Patent Number: | D732190 |
| Patent Number: | 9059576 |
| Patent Number: | 8944266 |
| Patent Number: | 8904712 |
| Patent Number: | D709043 |
| Patent Number: | 8762941 |
| Patent Number: | 8756893 |
| Patent Number: | 8747135 |
| Patent Number: | D697872 |
| Patent Number: | 8621784 |
| Patent Number: | D695690 |
| Patent Number: | 8519276 |
| Patent Number: | 8510672 |
| Patent Number: | 8500480 |
| Patent Number: | 8475188 |

| Property Type | Number |
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| Patent Number: | D659648 |
| Patent Number: | D659647 |
| Patent Number: | 8176707 |
| Patent Number: | 8162686 |
| Patent Number: | 8152546 |
| Patent Number: | 8112954 |
| Patent Number: | 8056286 |
| Patent Number: | 8024901 |
| Patent Number: | 7984598 |
| Patent Number: | 7958679 |
| Patent Number: | 7954288 |
| Patent Number: | D635277 |
| Patent Number: | 7908296 |
| Patent Number: | D628717 |
| Patent Number: | D628716 |
| Patent Number: | D628715 |
| Patent Number: | D628714 |
| Patent Number: | 7387520 |
| Patent Number: | 7277830 |
| Patent Number: | 7249005 |
| Application Number: | 15741375 |
| Application Number: | 15741488 |
| Application Number: | 15741487 |
| Application Number: | 15108626 |
| Application Number: | 15735084 |
| Application Number: | 15026566 |
| Application Number: | 15741177 |
| Application Number: | 14915990 |
| Application Number: | 14115299 |
| Application Number: | 14683684 |
| Patent Number: | 9189571 |
| Application Number: | 13579257 |
| Patent Number: | 8151527 |
| Patent Number: | 7832154 |
| Patent Number: | 7163410 |
| Patent Number: | 7410373 |
| Patent Number: | D638367 |

| Property Type | Number |
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| Patent Number: | 8751950 |
| Patent Number: | 8762877 |
| Patent Number: | 9519407 |
| Patent Number: | 9245064 |
| Patent Number: | 9245381 |
| Patent Number: | 6338301 |
| Patent Number: | 6669041 |
| Patent Number: | 5744750 |
| Application Number: | 16324136 |
| Application Number: | 16469062 |
| Application Number: | 16477788 |
| Application Number: | 16348256 |
| Application Number: | 16339925 |
| Application Number: | 16316333 |
| Application Number: | 15741489 |
| Application Number: | 15741180 |
| Patent Number: | 10117511 |
| Application Number: | 15038694 |
| Application Number: | 15518378 |
| Application Number: | 14433346 |
| Application Number: | 10289758 |
| Application Number: | 14032931 |
| Patent Number: | 9874010 |
| Patent Number: | 9717348 |
| Application Number: | 15074383 |
| Patent Number: | D689823 |
| Patent Number: | D401558 |
| Application Number: | 29678725 |

CORRESPONDENCE DATA

Fax Number: (303)893-1379

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: 3038927353

Email: pantea.garroussi@dgsllaw.com

Correspondent Name: PANTEA GARROUSSI

Address Line 1: 1550 17TH STREET, SUITE 500

Address Line 4: DENVER, COLORADO 80202

| | |
|---------------------|--|
| SIGNATURE: | /pantea garroussi/ |
| DATE SIGNED: | 07/24/2019 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

Total Attachments: 60

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