

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4271739

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                              |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                                  |
| <b>CONVEYING PARTY DATA</b>   |   |
|   |   |
| <b>Name</b>   | <b>Execution Date</b>                       |
| MARC A. MORRIS  | 04/16/2014                                  |
| KARL EDMINSTER  | 04/15/2014                                  |
| ANDREW DEMEDEIROS   | 04/15/2014                                  |
| STEPHEN W. BARTHOLOMEW  | 04/16/2014                                  |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | ENSIGN-BICKFORD AEROSPACE & DEFENSE COMPANY |
| <b>Street Address:</b>  | 640 HOPMEADOW STREET                        |
| <b>City:</b>  | SIMSBURY                                    |
| <b>State/Country:</b>   | CONNECTICUT                                 |
| <b>Postal Code:</b>   | 06070-0429                                  |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
|   |   |
| <b>Property Type</b>  | <b>Number</b>                               |
| <b>Application Number:</b>  | 15430918                                    |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (860)286-0115                               |
| <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> |   |
| <b>Phone:</b>   | 860-286-2929                                |
| <b>Email:</b>   | usptopatentmail@cantorcolburn.com           |
| <b>Correspondent Name:</b>  | CANTOR COLBURN LLP                          |
| <b>Address Line 1:</b>  | 20 CHURCH STREET                            |
| <b>Address Line 2:</b>  | 22ND FLOOR                                  |
| <b>Address Line 4:</b>  | HARTFORD, CONNECTICUT 06103                 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | EBA0195USD                                  |
| <b>NAME OF SUBMITTER:</b>   | RICHARD H. KOSAKOWSKI                       |
| <b>SIGNATURE:</b>   | /Richard H. Kosakowski/                     |
| <b>DATE SIGNED:</b>   | 02/13/2017                                  |
| <b>Total Attachments: 10</b>  |   |
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**ASSIGNMENT**

WHEREAS, We, Marc A. Morris, of Clarksville TN; Karl Edminster of Fairhaven, MA; Andrew DeMedeiros of Fall River, MA; and Stephen W. Bartholomew of Simsbury, CT (below referred to as "ASSIGNORS") are the inventors of an invention entitled **SIGNAL ENCRYPTED DIGITAL DETONATOR SYSTEM**, and which is described in **U.S. Non-Provisional Application Serial No. 14/197935 , filed March 5, 2014**; and

WHEREAS, Ensign-Bickford Aerospace & Defense Company, a corporation of the State of Connecticut with a place of business at 640 Hopmeadow Street, Simsbury, Connecticut 06070-0429 (below referred to as "ASSIGNEE"), is desirous of obtaining the entire right, title and interest in and to the aforesaid invention and the aforesaid patent applications describing it;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt, adequacy and sufficiency of which are acknowledged, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest in and to the aforesaid invention, and the aforesaid U.S. Provisional Patent Application, and any and all divisional, continuation, continuation-in-part, re-examination, reissue and comparable applications based on the aforesaid application, and any and all Letters Patent or comparable rights issuing thereon in the United States and in all other countries, together with all rights of priority based on the filing of any of the aforesaid applications arising under the International Convention for the Protection of Industrial Property and any and all other international agreements to which the United States of America adheres, and we hereby authorize and request the U.S. Commissioner of Patents and officials of any international organization and any country or countries foreign to the United States whose duty it is to issue patents or comparable rights on patent applications as aforesaid, to issue all Letters Patent or comparable rights for said invention issuing on any application as aforesaid to ASSIGNEE or to the successors, assigns or legal representatives, if any, of ASSIGNEE.

ASSIGNOR further agrees, upon request of ASSIGNEE and without further remuneration, to execute any and all lawful papers and make all rightful declarations and oaths as needed for the filing and prosecution of the aforesaid U.S. and other patent applications and granting of Letters Patent or comparable rights thereon, and further to supply to ASSIGNEE









ASSIGNMENT

WHEREAS, We, Marc A. Morris, of Clarksville TN; Karl Edminster of Fairhaven, MA; Andrew DeMedeiros of Fall River, MA; and Stephen W. Bartholomew of Simsbury, CT (below referred to as "ASSIGNORS") are the inventors of an invention entitled SIGNAL ENCRYPTED DIGITAL DETONATOR SYSTEM, and which is described in U.S. Non-Provisional Application Serial No. 14/197935 , filed March 5, 2014; and

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ASSIGNOR further agrees, upon request of ASSIGNEE and without further remuneration, to execute any and all lawful papers and make all rightful declarations and oaths as needed for the filing and prosecution of the aforesaid U.S. and other patent applications and granting of Letters Patent or comparable rights thereon, and further to supply to ASSIGNEE






APRIL 15, 2014  
Date

  
Name: KARL EDMINSTER

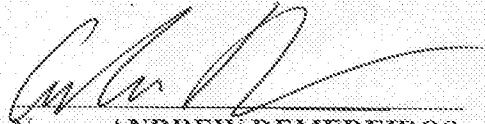
State of \_\_\_\_\_ )  
  )ss.:  
County of \_\_\_\_\_ )

On this 15 day of April, 2014, before me, a Notary Public in and for the State and County aforesaid, personally appeared **KARL EDMINSTER** known or satisfactorily proven to me to be the person of whose name is subscribed to this instrument, who acknowledged that he executed the same for the purposes therein contained.

  
Notary Public  
My Commission Expires:

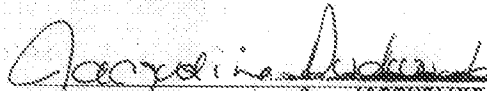

  
**JACQUELINE T. DUCKWORTH**  
Notary Public  
COMMONWEALTH OF MASSACHUSETTS  
My Commission Expires  
December 25, 2020

April 15, 2014  
Date

  
Name: **ANDREW DEMEIDEIROS**

State of \_\_\_\_\_ )  
  )ss.:  
County of \_\_\_\_\_ )

On this 15 day of April, 2014, before me, a Notary Public in and for the State and County aforesaid, personally appeared **ANDREW DEMEIDEIROS**, known or satisfactorily proven to me to be the person of whose name is subscribed to this instrument, who acknowledged that he executed the same for the purposes therein contained.

  
Notary Public  
My Commission Expires  
 **JACQUELINE T. DUCKWORTH**  
Notary Public  
COMMONWEALTH OF MASSACHUSETTS  
My Commission Expires  
December 28, 2020

