

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4601925

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NARKIS SHATZ	09/18/2017
JOHN C. BORTZ	09/08/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SUREFIRE LLC
<b>Street Address:</b>	18300 MT. BALDY CIRCLE
<b>City:</b>	FOUNTAIN VALLEY
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92708
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15615819
<b>Application Number:</b>	15615826
<b>Application Number:</b>	15616532
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	docketing@sheppardmullin.com
<b>Correspondent Name:</b>	SHEPPARD, MULLIN, RICHTER & HAMPTON LLP
<b>Address Line 1:</b>	12275 EL CAMINO REAL
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92130
<b>ATTORNEY DOCKET NUMBER:</b>	0WHH-251148,258050,258049
<b>NAME OF SUBMITTER:</b>	DANIEL N. YANNUZZI
<b>SIGNATURE:</b>	/Daniel N. Yannuzzi/
<b>DATE SIGNED:</b>	09/19/2017
<b>Total Attachments: 8</b>	
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## ASSIGNMENT FROM INVENTORS

WHEREAS, John C. Bortz of Spokane, Washington and Narkis E. Shatz of La Jolla, California (collectively "the Assignors"), have made certain new and useful inventions, discoveries, and improvements (the "Inventions"), for which the Assignors filed the applications listed in Exhibit A, below, and now desire to convey all right, title, and interest in:

- the Inventions,
- the applications listed in Exhibit A, and any other applications for patent, design, utility model, certificate of invention, trademark, or trade dress, in any country or under any international or regional authority (e.g. WIPO/PCT, EPO, ARIPO, EAPO, OAPI), to the extent some or all of its subject matter is disclosed and entitled to the benefit of priority in the applications listed in Exhibit A, including provisional, continuation, divisional, continuation-in-part, reissue, and reexamination applications, (collectively "the Applications"),
- the benefit of earlier filing date and right to claim priority to the Inventions and Applications under applicable law and treaties, including the Paris Convention for the Protection of Industrial Property as revised and amended and 35 U.S.C. §§ 119, 120,
- any rights accrued by the publication of the Applications, such as 35 U.S.C. § 154(d), Art. 67(1) EPC,
- any Letters Patent or Certificates of Invention that may be issued or granted from the Applications, including reissued patents, reexamination certificates, renewals, and any rights resulting from an extension or adjustment of patent term, and
- any rights arising from the Invention under laws and conventions protecting copyright, trademark, trade dress, or other industrial property,

(collectively, "the IP Rights"), and

WHEREAS, SureFire LLC, a limited liability company having a place of business at 18300 Mt. Baldy Circle, Fountain Valley, California 92708, is desirous of acquiring the entire right, title, and interest for itself, its successors, and its assigns (collectively "the Assignee") in the IP Rights by an instrument in writing, 35 U.S.C. § 261;

NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration as set forth in Independent Contractor Agreements entered into and effective as of September 9, 2013, by and between Assignors and Assignee, the receipt and sufficiency of which the Assignors hereby acknowledge and hereby waive the right to any additional compensation concerning the IP Rights:

The Assignors warrant and represent to the Assignee that the Assignors have the full right to convey right, title, and interest in the IP Rights without encumbrance, and that the Assignors have not made any earlier assignment, license, grant, or mortgage to another, or made any agreement with another, that would affect the Assignors' right, title, and interest in the IP Rights;

## ASSIGNMENT FROM INVENTORS

By this Assignment and by virtue of any earlier agreements to assign, Assignors hereby assign, transfer, convey, and sell Assignors' entire right, title, and interest in the IP Rights to the Assignee, including any claims or causes of action for damages or other remedies arising out of any earlier violation of the IP Rights, for and to inure to the Assignee's full benefit of the IP Rights as fully as they would have been held by Assignors if this Assignment had not been made;

Assignors authorize the Assignee and its legal representatives to:

- (a) insert into this Assignment any supplemental information to make the identification more complete for any of the Applications or Letters Patent already listed in Exhibit A,
- (b) prosecute the Applications, file new applications for the Inventions, and do all acts permitted by law to protect and enforce the IP Rights,
- (c) request that Letters Patent and Certificates of Invention be issued and granted to and in the name of the Assignee by the issuing or granting authority, such as the U.S. Commissioner for Patents, 37 C.F.R. § 3.81; and

Assignors agree with the Assignee that Assignors and Assignors' legal representatives, heirs, and executors will perform all acts deemed necessary or desirable by the Assignee to permit and assist it to secure the entire right, title, and interest in the IP Rights so that the Assignee may benefit from this Assignment, including:

- (a) communicating to the Assignee all facts known to Assignors that relate to the history and extent of my individual contribution to the IP Rights, including the circumstances of the conception of the invention and its development and reduction to practice, and furnishing supporting documents or items in my control,
- (b) assisting in the preparation of the Applications and their prosecution by the Assignee, 37 C.F.R. § 3.71, and in the enforcement of the IP Rights, including making, executing, and delivering to the Assignee any other necessary documents, such as further application papers, declarations, affidavits, disclaimers, petitions, or assignments, and
- (c) assisting and cooperating in administrative and legal proceedings, including giving written and oral testimony,

so that these will be performed without further consideration, except for reasonable actual expenses to be reimbursed by the Assignee.

Assignors further agree with the Assignee that Assignors will not perform any future act, execute any subsequent document, or make any subsequent agreement with another person or party that conflicts with this Assignment, that purports to transfer any right, title, or interest in the IP Rights that are the subject of this Assignment, unless agreed to in writing by the Assignee or that prevents the Assignee from receiving the full benefit of the bargain under this Assignment.

**ASSIGNMENT FROM INVENTORS**

If any provision of this Assignment is held invalid or unenforceable, that provision shall be enforced to the maximum extent permissible in order to put into effect the intent of the Assignors and the Assignee, and the remainder of this Assignment shall not be affected, but continue in full force and effect.

This document shall be executable by each Assignor in parts, and the Assignment will be effective and recordable for each Assignor as of the date of that Assignor's signature.

Legal Name of Inventor: **Narkis E. Shatz**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18 day of September, 2017.

Signature: \_\_\_\_\_  


Legal Name of Inventor: **John C. Bortz**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Signature: \_\_\_\_\_

ASSIGNEE hereby acknowledges receipt of the entire right, title and interest in and to the Inventions and the Applications.

ASSIGNEE:

**SureFire LLC**

Date: \_\_\_\_\_

By \_\_\_\_\_  
Name:

Position:  
Nationality: **United States**  
Address: **18300 Mt. Baldy Circle**

## ASSIGNMENT FROM INVENTORS

### Exhibit A – Patent Applications

1 Title: ADAPTIVE COMMUNICATIONS FOCAL  
PLANE ARRAY  
U.S. Application No.: 15/615,819  
Filing Date: **June 6, 2017**  
Inventors: **John C. Bortz, Narkis E. Shatz**

2 Title: ADAPTIVE COMMUNICATIONS FOCAL  
PLANE ARRAY  
U.S. Application No.: 15/616,532  
Filing Date: **June 7, 2017**  
Inventors: **John C. Bortz, Narkis E. Shatz**  
Docket No: 0WHH-258050

3 Title: ADAPTIVE COMMUNICATIONS FOCAL  
PLANE ARRAY  
U.S. Application No.: 15/615,826  
Filing Date: **June 6, 2017**  
Inventors: **John C. Bortz, Narkis E. Shatz**  
Docket No: 0WHH-258049

## ASSIGNMENT FROM INVENTORS

WHEREAS, John C. Bortz of Spokane, Washington and Narkis E. Shatz of La Jolla, California (collectively "the Assignors"), have made certain new and useful inventions, discoveries, and improvements (the "inventions"), for which the Assignors filed the applications listed in Exhibit A, below, and now desire to convey all right, title, and interest in:

- the Inventions,
- the applications listed in Exhibit A, and any other applications for patent, design, utility model, certificate of invention, trademark, or trade dress, in any country or under any international or regional authority (e.g. WIPO/PCT, EPO, ARIPO, EAPO, OAPI), to the extent some or all of its subject matter is disclosed and entitled to the benefit of priority in the applications listed in Exhibit A, including provisional, continuation, divisional, continuation-in-part, reissue, and reexamination applications, (collectively "the Applications"),
- the benefit of earlier filing date and right to claim priority to the Inventions and Applications under applicable law and treaties, including the Paris Convention for the Protection of Industrial Property as revised and amended and 35 U.S.C. §§ 119, 120,
- any rights accrued by the publication of the Applications, such as 35 U.S.C. § 154(d), Art. 67(1) EPC,
- any Letters Patent or Certificates of Invention that may be issued or granted from the Applications, including reissued patents, reexamination certificates, renewals, and any rights resulting from an extension or adjustment of patent term, and
- any rights arising from the Invention under laws and conventions protecting copyright, trademark, trade dress, or other industrial property,

(collectively, "the IP Rights"), and

WHEREAS, SureFire LLC, a limited liability company having a place of business at 18300 Mt. Baldy Circle, Fountain Valley, California 92708, is desirous of acquiring the entire right, title, and interest for itself, its successors, and its assigns (collectively "the Assignee") in the IP Rights by an instrument in writing, 35 U.S.C. § 261;

NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration as set forth in Independent Contractor Agreements entered into and effective as of September 9, 2013, by and between Assignors and Assignee, the receipt and sufficiency of which the Assignors hereby acknowledge and hereby waive the right to any additional compensation concerning the IP Rights:

The Assignors warrant and represent to the Assignee that the Assignors have the full right to convey right, title, and interest in the IP Rights without encumbrance, and that the Assignors have not made any earlier assignment, license, grant, or mortgage to another, or made any agreement with another, that would affect the Assignors' right, title, and interest in the IP Rights;

## ASSIGNMENT FROM INVENTORS

By this Assignment and by virtue of any earlier agreements to assign, Assignors hereby assign, transfer, convey, and sell Assignors' entire right, title, and interest in the IP Rights to the Assignee, including any claims or causes of action for damages or other remedies arising out of any earlier violation of the IP Rights, for and to inure to the Assignee's full benefit of the IP Rights as fully as they would have been held by Assignors if this Assignment had not been made;

Assignors authorize the Assignee and its legal representatives to:

- (a) insert into this Assignment any supplemental information to make the identification more complete for any of the Applications or Letters Patent already listed in Exhibit A,
- (b) prosecute the Applications, file new applications for the Inventions, and do all acts permitted by law to protect and enforce the IP Rights,
- (c) request that Letters Patent and Certificates of Invention be issued and granted to and in the name of the Assignee by the issuing or granting authority, such as the U.S. Commissioner for Patents, 37 C.F.R. § 3.81; and

Assignors agree with the Assignee that Assignors and Assignors' legal representatives, heirs, and executors will perform all acts deemed necessary or desirable by the Assignee to permit and assist it to secure the entire right, title, and interest in the IP Rights so that the Assignee may benefit from this Assignment, including:

- (a) communicating to the Assignee all facts known to Assignors that relate to the history and extent of my individual contribution to the IP Rights, including the circumstances of the conception of the invention and its development and reduction to practice, and furnishing supporting documents or items in my control,
- (b) assisting in the preparation of the Applications and their prosecution by the Assignee, 37 C.F.R. § 3.71, and in the enforcement of the IP Rights, including making, executing, and delivering to the Assignee any other necessary documents, such as further application papers, declarations, affidavits, disclaimers, petitions, or assignments, and
- (c) assisting and cooperating in administrative and legal proceedings, including giving written and oral testimony,

so that these will be performed without further consideration, except for reasonable actual expenses to be reimbursed by the Assignee.

Assignors further agree with the Assignee that Assignors will not perform any future act, execute any subsequent document, or make any subsequent agreement with another person or party that conflicts with this Assignment, that purports to transfer any right, title, or interest in the IP Rights that are the subject of this Assignment, unless agreed to in writing by the Assignee or that prevents the Assignee from receiving the full benefit of the bargain under this Assignment.



**ASSIGNMENT FROM INVENTORS**

If any provision of this Assignment is held invalid or unenforceable, that provision shall be enforced to the maximum extent permissible in order to put into effect the intent of the Assignors and the Assignee, and the remainder of this Assignment shall not be affected, but continue in full force and effect.

This document shall be executable by each Assignor in parts, and the Assignment will be effective and recordable for each Assignor as of the date of that Assignor's signature.

Legal Name of Inventor: **Narkis E. Shatz**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Signature: \_\_\_\_\_

Legal Name of Inventor: **John C. Bortz**

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 8<sup>th</sup> day of September, 2017.

Signature: John C. Bortz

ASSIGNEE hereby acknowledges receipt of the entire right, title and interest in and to the Inventions and the Applications.

ASSIGNEE:

**SureFire LLC**

Date: 9-19-2017

By [Signature]  
Name: \_\_\_\_\_

Position:

Nationality: **United States**

Address: **18300 Mt. Baldy Circle**

**ASSIGNMENT FROM INVENTORS**

**Exhibit A – Patent Applications**

1 Title: ADAPTIVE COMMUNICATIONS FOCAL  
PLANE ARRAY  
U.S. Application No.: 15/615,819  
Filing Date: June 6, 2017  
Inventors: John C. Bortz, Narkis E. Shatz

2 Title: ADAPTIVE COMMUNICATIONS FOCAL  
PLANE ARRAY  
U.S. Application No.: 15/616,532  
Filing Date: June 7, 2017  
Inventors: John C. Bortz, Narkis E. Shatz  
Docket No: 0WHH-258050

3 Title: ADAPTIVE COMMUNICATIONS FOCAL  
PLANE ARRAY  
U.S. Application No.: 15/615,826  
Filing Date: June 6, 2017  
Inventors: John C. Bortz, Narkis E. Shatz  
Docket No: 0WHH-258049