

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI35696

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Plamen Doynov	01/04/2024
Timothy A Carty	01/15/2024
RECEIVING PARTY DATA	
Company Name:	EMP SHIELD INC.
Street Address:	2010 S 6th St
City:	Burlington
State/Country:	KANSAS
Postal Code:	66839
PROPERTY NUMBERS Total: 5	
Property Type	Number
Patent Number:	10938204
Patent Number:	11451051
Patent Number:	11469592
Patent Number:	11689015
Patent Number:	11714483
CORRESPONDENCE DATA	
Fax Number:	7852423308
<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>	
Phone:	7852429500
Email:	dream@reamlawfirm.com
Correspondent Name:	Mr. Dale J Ream
Address Line 1:	210 W Tecumseh
Address Line 4:	Ottawa, KANSAS 66067
NAME OF SUBMITTER:	MICHELLE RANDOL
SIGNATURE:	MICHELLE RANDOL
DATE SIGNED:	02/19/2024
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 28	

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PATENT ASSIGNMENT AGREEMENT

This Assignment of Patent Rights from Inventors to EMP Shield, Inc. Agreement (“Agreement”) is entered into by and between **Plamen Doynov**, an individual having an address of 1430 W. 50th St., Kansas City, MO 64112, and **Timothy A. Carty**, an individual having an address of 2799 Oxen Road, Waverly, Kansas 66871, (hereinafter referred to as “Assignors”) and **EMP Shield, Inc.**, a corporation created and existing under and by virtue of the laws of the State of Kansas having a principal place of business at 2010 S 6th St. Burlington, KS 66839 (“Assignee”).

WHEREAS Assignors have contributed to the subject matter of the invention disclosed, described, and/or claimed in United States Patent Application 17/521,369, filed November 8, 2021, now **US Pat. No. 11,451,051**, titled **“Method and Systems for Suppressing Electromagnetic Pulse Induced Surges Using Combined Multiport Protection with Impedance Matching and Low Insertion Loss”** (“Patent”) dated September 20, 2022; and

WHEREAS, Assignors have an obligation to convey any and all rights that Assignors have or might have in the aforementioned invention and Patent Application and

WHEREAS Assignors are willing to execute this notarized Agreement in order to confirm the assignment of rights in the Patent Application (and other rights as more fully set forth below) to Assignee.

NOW THEREFORE, in consideration of Assignors’ past and continued employment with and use of Assignee’s funds and facilities, Assignors’ assignment obligations, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Assignment

Assignors hereby assign, transfer, and convey (and confirm any prior such conveyance as the case may be) to Assignee, and Assignee hereby accepts Assignors’ entire right, title, and interest in and to:

- (a) the invention disclosed and/or claimed, in whole or in part, in the Patent Application and any and all improvements therein conceived or reduced to practice by each of Assignors in the course of and the general scope of each of Assignors’ employment with Assignee (collectively the “Invention”);
- (b) all patents and patent applications that have been or may hereafter be filed which are based on the Patent Application and any provisional, non-provisional, divisional, continuation, continuation-in-part, extension, renewal, re-examination, reissue, substitute, supplementary protection certificate, utility model, or similar legal protection based on the Patent (“Patents”);
- (c) the right to claim priority to any of the Patents under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any

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WHEREAS Assignors have contributed to the subject matter of the invention disclosed, described, and/or claimed in United States Patent Application 16/925,600, filed July 10, 2020, now **US Pat. No. 10,938,204**, titled “**System and Method for Detecting an Isolating an Electromagnetic Pulse for Protection of a Monitored Infrastructure**” (“Patent”) dated March 2, 2021; and

WHEREAS, Assignors have an obligation to convey any and all rights that Assignors have or might have in the aforementioned invention and Patent Application and

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WHEREAS Assignor has contributed to the subject matter of the invention disclosed, described, and/or claimed in United States Patent Application 17/706,041, filed March 28, 2022, now **US Pat. No. 11,469,592**, titled “**Method and Systems for Electromagnetic Protection with Persistent Self Monitoring and Cybersecure Local and Remote Status Report**” (“Patent”) dated October 11, 2022; and

WHEREAS, Assignor has an obligation to convey any and all rights that Assignor has or might have in the aforementioned invention and Patent Application and

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WHEREAS Assignor has contributed to the subject matter of the invention disclosed, described, and/or claimed in United States Patent Application 17/888,107, filed August 15, 2022, now **US Pat. No. 11,689,015**, titled **“Method and Systems for Protection of Multiport Multimode Power Over Ethernet Devices From Electromagnetic Energy Disturbance”** (“Patent”) dated June 27, 2023; and

WHEREAS, Assignor has an obligation to convey any and all rights that Assignor has or might have in the aforementioned invention and Patent Application and

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Assignors' rights assigned in (a)-(d) above are referred to collectively in this Agreement as the "Assigned Rights." Assignors authorize and request the Director of the United States Patent and Trademark Office and any corresponding entity, agency, or official of any other country whose duty it is to issue patents or similar legal protection to issue the Patents to Assignee such that the Patents will be held by Assignee for its own use and benefit, for the full term for which the Patents are or may be granted.

2. Further Assurances

Upon the reasonable request of the Assignee, Assignors agree to execute such documents and perform such acts as may be necessary to give full effect to the terms of this Agreement. Without limiting the generality of the foregoing, Assignors agree to execute any and all assignments and other documents that may be needed to record, vest, or perfect Assignee's right, title, and interest in and to the Assigned Rights as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment had not been made. Assignors also agree to execute any and all declarations, oaths, specifications, and other documents requested by Assignee in connection with the prosecution of the Patents. Assignors further agree to cooperate with and assist Assignee with respect to the prosecution of the Patents, including communication to Assignee of any facts known to Assignors relating to the Invention and/or any prior art that may be material to patentability of the Invention. Assignors also agree that in the event any of the Patents become involved in an interference, derivation proceeding, re-examination, reissue, opposition, supplemental examination, *inter partes* review, post-grant review, validity, or infringement proceeding or litigation, Assignors will cooperate with and assist Assignee in relation to the proceeding for the benefit of Assignee at Assignee's expense.

3. Representations and Warranties

Assignors represent and warrant to Assignee that:

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- (b) The Assigned Rights are free and clear of any agreement, lien, charges, encumbrances, ownership claim, or other claim or right, either written, oral, or implied, which will impair, interfere, or conflict with the rights herein assigned to Assignee; and
- (c) Assignors have not assigned, transferred, or otherwise conveyed and will not assign, transfer, or otherwise convey to any third party any right or license under or with respect to the Assigned Rights or execute any other agreement that is in conflict with this Agreement.

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4. Attorney-In-Fact

Assignors hereby irrevocably appoint the President of Assignee, or the President's designee, as each of Assignors' attorney-in-fact with authority to execute for Assignors and on Assignors' behalf any and all assignments, applications, or other instruments and documents required to be executed by Assignors pursuant to this Agreement, if Assignors are unwilling or unable to execute same. This appointment shall be deemed to be a power coupled with an interest, and as such, is irrevocable.

5. Governing Law

The Assignment is governed by and is to be construed in accordance with the laws of the State of Kansas.

6. Binding Agreement

The provisions of this Agreement are binding upon and will inure to the benefit of the parties hereto and their respective heirs, personal representatives, successors, and permitted assigns.

7. Severability

If a provision of this Assignment is held to be unenforceable under applicable law, the parties agree to renegotiate such provision in good faith. If the parties cannot reach a mutually agreeable and enforceable replacement for such provision, then (i) such provision will be excluded from this Assignment, (ii) the balance of the Assignment will be interpreted as if such provision was so excluded, and (iii) the balance of the Assignment will be enforceable in accordance with its terms.

8. Advice of Counsel

Each party acknowledges that in executing the agreement for this Assignment, such party has had the opportunity to seek the advice of independent legal counsel and has read and understood all of the terms and provisions of this agreement. This agreement will not be construed against any party by reason of the drafting or preparation hereof.

9. Counterparts

This Agreement may be executed in any number of counterparts, including facsimile or scanned PDF documents. Each such counterpart, facsimile or scanned PDF document shall be deemed an original instrument, and all of such counterparts, together, shall constitute one and the same executed Agreement.

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IN WITNESS whereof, Assignors and Assignee have executed this Assignment Agreement as of the day and year written below.

Timothy A. Carty, Inventor

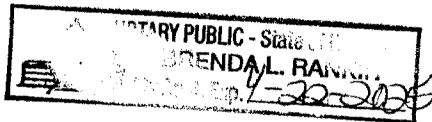
Signed: *Timothy A. Carty*

Date: 1/15/24

STATE OF Kansas

COUNTY OF Coffey

On this 15th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



Brenda L. Rankin
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

IN WITNESS whereof, Assignor and Assignee have executed this Assignment Agreement as of the day and year written below.

Plamen Doynov, Inventor

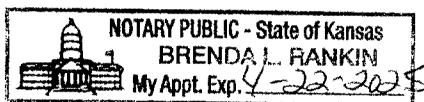
Signed: Plamen Doynov

Date: 1/04/2024

STATE OF Kansas

COUNTY OF Coffey

On this 21st day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



Brenda L. Rankin
Notary Public

(SEAL)

My Commission Expires April 22, 2025

IN WITNESS whereof, Assignors and Assignee have executed this Assignment Agreement as of the day and year written below.

Plamen Doynov, Inventor

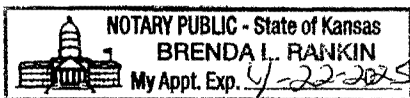
Signed: Plamen Doynov

Date: 1/04/2024

STATE OF Kansas

COUNTY OF Coffey

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



Brenda L. Rankin
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

IN WITNESS whereof, Assignor and Assignee have executed this Assignment Agreement as of the day and year written below.

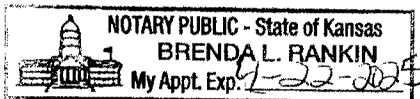
Plamen Doynov, Inventor

Signed: Plamen Doynov

Date: 1/24/2024

STATE OF Kansas
COUNTY OF Cossey

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



Brenda L. Rankin
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

Plamen Doynov, Inventor

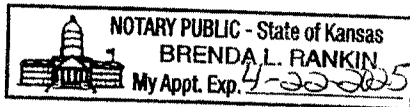
Signed: Plamen Doynov

Date: 1/04/2024

STATE OF Kansas

COUNTY OF Cosby

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



Brenda L. Rankin
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

EMP Shield, Inc.

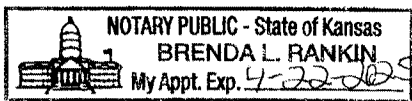
By (Printed Name): PETER F. KEEGON Title: PRESIDENT

Signed: [Signature] Date: 01/04/2024

STATE OF Kansas

COUNTY OF Coffey

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



[Signature]
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

Timothy A. Carty, Inventor

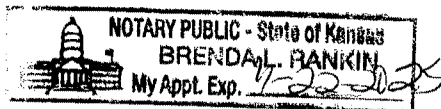
Signed: *Timothy A. Carty*

Date: *1/15/21*

STATE OF *Kansas*

COUNTY OF *Coffey*

On this *15th* day of *January*, 20*21*, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



Brenda L. Rankin
Notary Public

(SEAL)

My Commission Expires: *April 22, 2025*

EMP Shield, Inc.

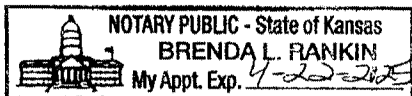
By (Printed Name): PETER F. KEEGAN Title: PRESIDENT

Signed: [Signature] Date: 01/04/2024

STATE OF Kansas

COUNTY OF Cossey

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



[Signature]
Notary Public

(SEAL)

My Commission Expires: April 20, 2025

EMP Shield, Inc.

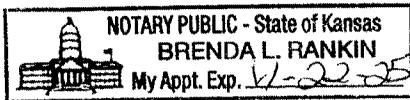
By (Printed Name): PETER F. KEEGAN Title: PRESIDENT

Signed: [Signature] Date: 01/04/2024

STATE OF Kansas

COUNTY OF Cossey

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



[Signature]
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

PATENT ASSIGNMENT AGREEMENT

This Assignment of Patent Rights from Inventors to EMP Shield, Inc. Agreement (“Agreement”) is entered into by and between **Plamen Doynov**, an individual having an address of 1430 W. 50th St., Kansas City, MO 64112, and **Timothy A. Carty**, an individual having an address of 2799 Oxen Road, Waverly, Kansas 66871, (hereinafter referred to as “Assignors”) and **EMP Shield, Inc.**, a corporation created and existing under and by virtue of the laws of the State of Kansas having a principal place of business at 2010 S 6th St. Burlington, KS 66839 (“Assignee”).

WHEREAS Assignors have contributed to the subject matter of the invention disclosed, described, and/or claimed in United States Patent Application 17/148,168, filed January 13, 2021, now **US Pat. No. 11,714,483**, titled **“Method and Systems for Detection and Protection from Electromagnetic Pulse Events Using Hardware Implemented Artificial Intelligence”** (“Patent”) dated November 9, 2021; and

WHEREAS, Assignors have an obligation to convey any and all rights that Assignors have or might have in the aforementioned invention and Patent Application and

WHEREAS Assignors are willing to execute this notarized Agreement in order to confirm the assignment of rights in the Patent Application (and other rights as more fully set forth below) to Assignee.

NOW THEREFORE, in consideration of Assignors’ past and continued employment with and use of Assignee’s funds and facilities, Assignors’ assignment obligations, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Assignment

Assignors hereby assign, transfer, and convey (and confirm any prior such conveyance as the case may be) to Assignee, and Assignee hereby accepts Assignors’ entire right, title, and interest in and to:

- (a) the invention disclosed and/or claimed, in whole or in part, in the Patent Application and any and all improvements therein conceived or reduced to practice by each of Assignors in the course of and the general scope of each of Assignors’ employment with Assignee (collectively the “Invention”);
- (b) all patents and patent applications that have been or may hereafter be filed which are based on the Patent Application and any provisional, non-provisional, divisional, continuation, continuation-in-part, extension, renewal, re-examination, reissue, substitute, supplementary protection certificate, utility model, or similar legal protection based on the Patent (“Patents”);
- (c) the right to claim priority to any of the Patents under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any

EMP Shield, Inc.

By (Printed Name): PETER F. KEEGAN Title: PRESIDENT

Signed: [Signature] Date: 01/04/2024

STATE OF Kansas

COUNTY OF COSSEY

On this 14th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



[Signature]
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

- other international agreement or laws of the country in which the Patents are filed, as may be applicable; and
- (d) all rights of action, powers, and benefits arising from ownership of the Patents, including the right to sue for past, present, and future infringement of the Patents, the right to collect royalties, fees, damages, and payments now or hereafter due or payable with respect to the Patents, the right to seek injunctive relief based on the Patents, and the right to pursue all causes of action and all enforcement rights relating to the Patents, whether known or unknown, currently pending or otherwise.

Assignors' rights assigned in (a)-(d) above are referred to collectively in this Agreement as the "Assigned Rights." Assignors authorize and request the Director of the United States Patent and Trademark Office and any corresponding entity, agency, or official of any other country whose duty it is to issue patents or similar legal protection to issue the Patents to Assignee such that the Patents will be held by Assignee for its own use and benefit, for the full term for which the Patents are or may be granted.

2. Further Assurances

Upon the reasonable request of the Assignee, Assignors agree to execute such documents and perform such acts as may be necessary to give full effect to the terms of this Agreement. Without limiting the generality of the foregoing, Assignors agree to execute any and all assignments and other documents that may be needed to record, vest, or perfect Assignee's right, title, and interest in and to the Assigned Rights as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment had not been made. Assignors also agree to execute any and all declarations, oaths, specifications, and other documents requested by Assignee in connection with the prosecution of the Patents. Assignors further agree to cooperate with and assist Assignee with respect to the prosecution of the Patents, including communication to Assignee of any facts known to Assignors relating to the Invention and/or any prior art that may be material to patentability of the Invention. Assignors also agree that in the event any of the Patents become involved in an interference, derivation proceeding, re-examination, reissue, opposition, supplemental examination, *inter partes* review, post-grant review, validity, or infringement proceeding or litigation, Assignors will cooperate with and assist Assignee in relation to the proceeding for the benefit of Assignee at Assignee's expense.

3. Representations and Warranties

Assignors represent and warrant to Assignee that:

- (a) Assignors have the full right and power to enter into and perform their obligations under this Agreement without being in breach of any obligations owed by Assignors to any third party;
- (b) The Assigned Rights are free and clear of any agreement, lien, charges, encumbrances, ownership claim, or other claim or right, either written, oral, or implied, which will impair, interfere, or conflict with the rights herein assigned to Assignee; and
- (c) Assignors have not assigned, transferred, or otherwise conveyed and will not assign, transfer, or otherwise convey to any third party any right or license under or with respect to the Assigned Rights or execute any other agreement that is in conflict with this Agreement.

4. Attorney-In-Fact

Assignors hereby irrevocably appoint the President of Assignee, or the President's designee, as each of Assignors' attorney-in-fact with authority to execute for Assignors and on Assignors' behalf any and all assignments, applications, or other instruments and documents required to be executed by Assignors pursuant to this Agreement, if Assignors are unwilling or unable to execute same. This appointment shall be deemed to be a power coupled with an interest, and as such, is irrevocable.

5. Governing Law

The Assignment is governed by and is to be construed in accordance with the laws of the State of Kansas.

6. Binding Agreement

The provisions of this Agreement are binding upon and will inure to the benefit of the parties hereto and their respective heirs, personal representatives, successors, and permitted assigns.

7. Severability

If a provision of this Assignment is held to be unenforceable under applicable law, the parties agree to renegotiate such provision in good faith. If the parties cannot reach a mutually agreeable and enforceable replacement for such provision, then (i) such provision will be excluded from this Assignment, (ii) the balance of the Assignment will be interpreted as if such provision was so excluded, and (iii) the balance of the Assignment will be enforceable in accordance with its terms.

8. Advice of Counsel

Each party acknowledges that in executing the agreement for this Assignment, such party has had the opportunity to seek the advice of independent legal counsel and has read and understood all of the terms and provisions of this agreement. This agreement will not be construed against any party by reason of the drafting or preparation hereof.

9. Counterparts

This Agreement may be executed in any number of counterparts, including facsimile or scanned PDF documents. Each such counterpart, facsimile or scanned PDF document shall be deemed an original instrument, and all of such counterparts, together, shall constitute one and the same executed Agreement.

.

IN WITNESS whereof, Assignors and Assignee have executed this Assignment Agreement as of the day and year written below.

Plamen Doynov, Inventor

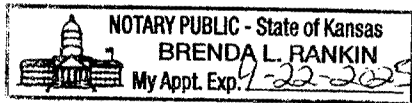
Signed: Plamen Doynov

Date: 1/04/2024

STATE OF Kansas

COUNTY OF Cossey

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



Brenda L. Rankin
Notary Public

(SEAL)

My Commission Expires: April 22, 2025

Timothy A. Carty, Inventor

Signed: _____

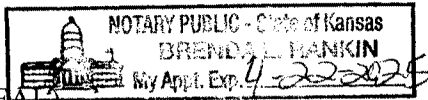
Date: _____

STATE OF _____

COUNTY OF _____



On this 15th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



(SEAL)

Notary Public

My Commission Expires: _____

EMP Shield, Inc.

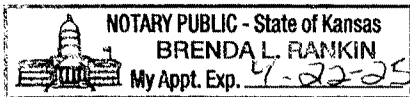
By (Printed Name): PETER F. KEEGAN Title: PRESIDENT

Signed: [Signature] Date: 01/04/2024

STATE OF Kansas

COUNTY OF Coffey

On this 4th day of January, 2024, before me, a Notary Public in and for the State and County aforesaid, this instrument was acknowledged before me.



[Signature]
Notary Public

(SEAL)

My Commission Expires: April 22, 2025