

CERTIFICATION OF MICRO ENTITY STATUS (GROSS INCOME BASIS)					
Application Number or Control Number (if applicable): 13/461,553			Patent Number (if applicable): 9,545,775		
First Named Inventor: Samer U. Al-Azem			Title of Invention: Attachment Systems And Methods Usable To Form Enclosures		
The applicant hereby certifies the following—					
(1) SMALL ENTITY REQUIREMENT – The applicant qualifies as a small entity as defined in 37 CFR 1.27. (2) APPLICATION FILING LIMIT – Neither the applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed U.S. patent applications, excluding provisional applications and international applications under the Patent Cooperation Treaty (PCT) for which the basic national fee under 37 CFR 1.492(a) was not paid, and also excluding patent applications for which the applicant has assigned all ownership rights, or is obligated to assign all ownership rights, as a result of the applicant's previous employment. (3) GROSS INCOME LIMIT ON APPLICANTS AND INVENTORS – Neither the applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986 (26 U.S.C. 61(a)), exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census. (4) GROSS INCOME LIMIT ON PARTIES WITH AN "OWNERSHIP INTEREST" – Neither the applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application concerned to an entity that, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.					
SIGNATURE by an authorized party set forth in 37 CFR 1.33(b)					
Signature		/Joshua Shamburger/			
Name		Joshua Shamburger			
Date		6-16-2020		Telephone	713-355-4200
				Registration No.	67837
☐		There is more than one inventor and I am one of the inventors who are jointly identified as the applicant. The required additional certification form(s) signed by the other joint inventor(s) are included with this form.			

Electronic Acknowledgement Receipt

EFS ID:	39728183
Application Number:	13461553
International Application Number:	
Confirmation Number:	1024
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES
First Named Inventor/Applicant Name:	Samer U. Al-Azem
Customer Number:	21897
Filer:	Terry L. McCutcheon/Shayne Gilbertson
Filer Authorized By:	Terry L. McCutcheon
Attorney Docket Number:	Al-Azem-001
Receipt Date:	16-JUN-2020
Filing Date:	01-MAY-2012
Time Stamp:	10:31:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Certification of Micro Entity (Gross Income Basis)	MicroEntityRequest.pdf	90213	no	1
			19611f82b87ca035d73e0374aee18a9bf188cd14		

Warnings:

IPR2025-01214

EX1002

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Information:	
Total Files Size (in bytes):	90213
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/461,553	01/17/2017	9545775	Al-Azem-001	1024

21897 7590 12/28/2016
Matthews, Lawson, McCutcheon & Joseph, PLLC
2000 BERING DRIVE
SUITE 700
HOUSTON, TX 77057

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 850 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Samer U. Al-Azem, Houston, TX;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the **ISSUE FEE** and **PUBLICATION FEE** (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Matthews, Lawson, McCutcheon & Joseph, PLLC
 2000 Bering Drive, Suite 700
 Houston, TX 77057

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Charlie H Nguyen	(Depositor's name)
/Charlie H Nguyen/	(Signature)
12/8/2016	(Date)

Deposited via: EFS-Web

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/461,553	05/01/2012	Samer U. Al-Azem	Al-Azem-001	1024

TITLE OF INVENTION: **ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES**

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	Small	\$480	\$0	\$0	\$480	12/08/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
COLLINS, RAVEN	3788	220-612000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 1 _____ 2 _____ 3 _____
---	---

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): ☒ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted: ☒ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies _____	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number <u>132166</u> (enclose an extra copy of this form).
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5. Change in Entity Status (from status indicated above) ☐ Applicant certifying micro entity status. See 37 CFR 1.29 ☐ Applicant asserting small entity status. See 37 CFR 1.27 ☐ Applicant changing to regular undiscounted fee status.	NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status. NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.
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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Terry L. McCutcheon/ Date 12/8/2016
 Typed or printed name Terry L. McCutcheon Registration No. 68122

Electronic Patent Application Fee Transmittal

Application Number:	13461553			
Filing Date:	01-May-2012			
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES			
First Named Inventor/Applicant Name:	Samer U. Al-Azem			
Filer:	Terry L. McCutcheon/Charlie Nguyen			
Attorney Docket Number:	Al-Azem-001			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	27736137
Application Number:	13461553
International Application Number:	
Confirmation Number:	1024
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES
First Named Inventor/Applicant Name:	Samer U. Al-Azem
Customer Number:	21897
Filer:	Terry L. McCutcheon/Charlie Nguyen
Filer Authorized By:	Terry L. McCutcheon
Attorney Docket Number:	Al-Azem-001
Receipt Date:	08-DEC-2016
Filing Date:	01-MAY-2012
Time Stamp:	14:39:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$480
RAM confirmation Number	120916INTEFSW00001042132166
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

IPR2025-01214

EX1002

Page 8 of 190

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Transmittal.pdf	232687	no	1
			48e4feeee9dc130bce76e50574eadbb7b5fa9d59		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30418	no	2
			d955de4bf8c27be083e3debd6e40e219eedde51		
Warnings:					
Information:					
Total Files Size (in bytes):			263105		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

21897 7590 09/08/2016
Matthews, Lawson, McCutcheon & Joseph, PLLC
2000 BERING DRIVE
SUITE 700
HOUSTON, TX 77057

EXAMINER

COLLINS, RAVEN

ART UNIT

PAPER NUMBER

3788

DATE MAILED: 09/08/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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13/461,553

05/01/2012

Samer U. Al-Azem

Al-Azem-001

1024

TITLE OF INVENTION: ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	12/08/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or **Fax** (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

21897 7590 09/08/2016
Matthews, Lawson, McCutcheon & Joseph, PLLC
2000 BERING DRIVE
SUITE 700
HOUSTON, TX 77057

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/461,553	05/01/2012	Samer U. Al-Azem	Al-Azem-001	1024

TITLE OF INVENTION: ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	12/08/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
COLLINS, RAVEN	3788	220-612000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/461,553	05/01/2012	Samer U. Al-Azem	Al-Azem-001	1024

21897 7590 09/08/2016
Matthews, Lawson, McCutcheon & Joseph, PLLC
2000 BERING DRIVE
SUITE 700
HOUSTON, TX 77057

EXAMINER

COLLINS, RAVEN

ART UNIT	PAPER NUMBER
----------	--------------

3788

DATE MAILED: 09/08/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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EX1002

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Notice of Allowability	Application No. 13/461,553	Applicant(s) AL-AZEM, SAMER U.	
	Examiner RAVEN COLLINS	Art Unit 3788	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/20/2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 8-17,19,20. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. ☐ Notice of References Cited (PTO-892) | 5. ☐ Examiner's Amendment/Comment |
| 2. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. ☒ Examiner's Statement of Reasons for Allowance |
| 3. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. ☐ Other _____. |
| 4. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____. | |

/RAVEN COLLINS/
Examiner, Art Unit 3788

/Anthony Stashick/
Supervisory Patent Examiner, Art Unit 3788

Art Unit: 3788

1. The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

2. The following is an examiner's statement of reasons for allowance: After further search and review, the prior art of record fails to teach attaching panels and maintaining a pressure differential across the panels. Chen, PG Pub 2015/0057109 teaches a ball net structure wherein the male end panel side mates with a female structure. Chen fails to teach maintaining the pressure differential across the two paneling as well as the ability for other panels to mate with second ends the first and second panels. To maintain the pressure differential in this connection would fail to exist.

3. Richards, PG Pub 2004/0068901, teaches a cover for an object. While the cover does teach a Velcro attachment, it fails to teach a male edge having back and front fastening connections and a female edge having a flap with inner surfaces having the same fastening mechanism as the male edge. The pressure differential would fail to exist because there is only one panel connecting two edges of the same panel.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAVEN COLLINS whose telephone number is (571)270-1672. The examiner can normally be reached on M-F 9:00-5:30 EST.

Art Unit: 3788

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Stashick can be reached on 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RAVEN COLLINS/
Examiner, Art Unit 3788

/Anthony Stashick/
Supervisory Patent Examiner, Art Unit 3788

Search Notes 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

CPC- SEARCHED		
Symbol	Date	Examiner
A47G9/0246	03/23/2014	RC
B65D33/00	03/23/2014	RC
B65D33/08	03/23/2014	RC
A63B 61/02	09/04/2016	RC
B32B 7/08	09/04/2016	RC
Y10T 428/24008	09/04/2016	RC

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
220	612, 531, 530, 529	03/19/2014	RC
428	100	03/19/2014	RC
493	128	03/19/2014	RC
	updated search	02/04/2015	RC
2	69	03/02/2015	RC
220	4.22, 552, 551	03/02/2015	RC

SEARCH NOTES		
Search Notes	Date	Examiner
class search	03/17/2014	RC
consulted R. Hicks	03/12/2014	RC
updated search	03/02/2015	RC

INTERFERENCE SEARCH

/RAVEN COLLINS/ Examiner.Art Unit 3788	
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US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	class and cpc search of patents and pg pubs conducted above	09/04/2016	RC

/RAVEN COLLINS/
Examiner.Art Unit 3788

Issue Classification 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.	
	Examiner RAVEN COLLINS	Art Unit 3788	

CPC					
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E04B	2	7425		A	2013-01-01
Y10T	428	13		A	2015-01-15
B23K	37	006		I	2013-01-01
B32B	1	02		I	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

/RAVEN COLLINS/ Examiner.Art Unit 3788 (Assistant Examiner)	09/04/2016 (Date)	Total Claims Allowed: 19	
/ANTHONY STASHICK/ Supervisory Patent Examiner.Art Unit 3788 (Primary Examiner)	09/06/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2A

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S5	179	220/531	USPAT	OR	ON	2014/03/13 15:11
S6	256	220/530	USPAT	OR	ON	2014/03/13 18:14
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S10	8919	panel and flap and (hook and loop) and edge	US- PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2014/03/23 21:32

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S14	361	panel with flap with velcro	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/02/04 16:55
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			EPO; JPO; DERWENT			
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S23	2561	sheet with velcro	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/04/05 16:08
S24	3948	(sheet or card or cushion) with velcro	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/04/05 16:09
S25	30746	flame near2 resistant	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/04/06 13:55
S26	3633	panel with velcro	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/04/06 13:56
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IPR2025-01214

EX1002

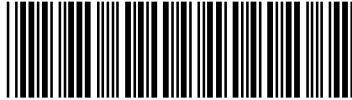
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EAST Search History (Interference)

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9/ 4/ 2016 3:31:19 PM
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<i>Index of Claims</i> 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE							
Final	Original	03/23/2014	02/04/2015	07/24/2015	07/24/2015				
	1	✓	✓	-	-				
	2	✓	✓	-	-				
	3	✓	✓	-	-				
	4	✓	✓	-	-				
	5	✓	✓	-	-				
	6	✓	✓	-	-				
	7	✓	✓	-	-				
	8	✓	✓	✓	=				
	9	✓	✓	✓	=				
	10	✓	✓	✓	=				
	11	✓	✓	✓	=				
	12	✓	✓	=	=				
	13	✓	✓	=	=				
	14	✓	✓	=	=				
	15	✓	✓	=	=				
	16	✓	✓	=	=				
	17	✓	✓	=	=				
	18	✓	O	✓	-				
	19	✓	✓	=	=				
	20	✓	✓	✓	=				
	21		N	-	-				

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)

Application Number	13461553	Filing Date	2012-05-01	Docket Number (if applicable)	AI-Azem-001	Art Unit	3788
First Named Inventor	Samer U. Al-Azem			Examiner Name	Collins, Raven		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☒ Amendment/Reply

☐ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☐ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No _____

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	/Joshua M. Shamburger/	Date (YYYY-MM-DD)	2015-11-20
Name	Joshua M. Shamburger	Registration Number	67837

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Patent Application Fee Transmittal

Application Number:	13461553			
Filing Date:	01-May-2012			
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES			
First Named Inventor/Applicant Name:	Samer U. Al-Azem			
Filer:	Terry L. McCutcheon/John Watkins			
Attorney Docket Number:	Al-Azem-001			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for Continued Examination	2801	1	600	600
Total in USD (\$)				600

Electronic Acknowledgement Receipt

EFS ID:	24152197
Application Number:	13461553
International Application Number:	
Confirmation Number:	1024
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES
First Named Inventor/Applicant Name:	Samer U. Al-Azem
Customer Number:	21897
Filer:	Terry L. McCutcheon/John Watkins
Filer Authorized By:	Terry L. McCutcheon
Attorney Docket Number:	Al-Azem-001
Receipt Date:	20-NOV-2015
Filing Date:	01-MAY-2012
Time Stamp:	17:37:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$600
RAM confirmation Number	4810
Deposit Account	132166
Authorized User	MCCUTCHEON, TERRY L

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

IPR2025-01214

EX1002

Page 34 of 190

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response After Final Action	RFOA.pdf	117110	no	10
			9327c33a1165f1da08526348b754b9a704f44f90		
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	RCE.pdf	76379	no	2
			9edb41c32acfeeddb28b03f5525c1af1a8d6b7f2		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30559	no	2
			24d689298c4b2b8382dece779c147d35e9a07d76		
Warnings:					
Information:					
Total Files Size (in bytes):			224048		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	§	
	§	
Samer U. Al-Azem	§	Attorney Docket: Al-Azem-001
	§	
Serial No.: 13/461,553	§	Examiner: Raven Collins
	§	
Filed: May 1, 2012	§	Art Unit: 3788
	§	
For: ATTACHMENT SYSTEMS AND	§	Confirmation Number: 1024
METHODS USABLE TO FORM	§	
ENCLOSURES	§	

MAIL STOP AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE TO FINAL OFFICE ACTION DATED AUGUST 20, 2015

In response to the Final Office Action dated August 20, 2015, Applicant submits the following amendments and remarks, as well as a first Request for Continued Examination, and respectfully requests entry and consideration of same. It is believed that no new matter is introduced with this response.

Claims begin on Page 2.

Remarks begin on Page 6.

Conclusion is on Page 10.

CLAIMS

1. – 7. (Cancelled)

8. (Previously Presented) An enclosure comprising:

a first panel having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second panel having a female edge with a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium,

wherein the engagement between the first panel and the second panel forms a seal adapted to maintain a pressure differential across opposing sides thereof.

9. (Original) The enclosure of claim 8, wherein engagement between the first flap and the front side, engagement between the second flap and the rear side, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.

10. (Original) The enclosure of claim 8, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.

11. (Original) The enclosure of claim 8, wherein the first panel, the second panel, or combinations thereof, is formed at least partially from a heat resistant material.

12. (Previously Presented) An enclosure comprising:

a wall comprising a first panel, a second panel, a third panel, and a fourth panel,

wherein the first panel comprises a first male edge having a front side and a rear side and a first female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon, and wherein said at least two

flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel comprises a second male edge having a front side and a rear side and a second female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the third panel comprises a third male edge having a front side and a rear side and a third female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the fourth panel comprises a fourth male edge having a front side and a rear side and a fourth female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel is engaged with the first panel via engagement between the first female edge and the second male edge, wherein the third panel is engaged with the second panel via engagement between the second female edge and the third male edge, wherein the fourth panel is engaged with the third panel via engagement between the third female edge and the fourth male edge, and wherein the first panel is engaged with the fourth panel via engagement between the fourth female edge and the first male edge; and

wherein the engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.

13. (Original) The enclosure of claim 12, wherein engagement between the first panel and the second panel defines a first axis, and wherein engagement between the third panel and the fourth

panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall.

14. (Original) The enclosure of claim 12, wherein engagement between the second panel and the third panel defines a first axis, and wherein engagement between the fourth panel and the first panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall.

15. (Original) The enclosure of claim 12, wherein the first panel, the second panel, the third panel, the fourth panel, or combinations thereof, further comprise at least one additional edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon for engagement with at least one additional panel.

16. (Original) The enclosure of claim 12, further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner edge comprising a second portion of the fastening medium for engagement with at least one additional panel.

17. (Original) The enclosure of claim 12, wherein each first portion of the fastening medium, each second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.

18. (Cancelled)

19. (Original) The enclosure of claim 12, further comprising at least one additional wall engaged with the wall to form an enclosed space adapted for performing hot work, for containing a pressure differential therein, or combinations thereof.

20. (Original) The enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, comprise engagement between a first of said flaps and one of the front

sides and a second of said flaps and one of the rear sides via engagement between the first portion and the second portion of the fastening medium.

21. (Cancelled)

REMARKS

This paper is intended as a complete reply to the Final Office Action dated August 20, 2015.

Current Status of Claims

Claims 8-17 and 19-20 are currently pending in the Application.

Claims 1-7, 18, and 21 are previously cancelled.

Claim Rejections – 35 USC 102

The Office rejects claims 8-17 and 19-20 as anticipated by US Application 2011/0296612 (Papp). Applicant respectfully traverses the rejection.

Establishing anticipation under 35 U.S.C. § 102(b) requires that a single prior art reference contain every element recited in the claim in as complete detail as is contained in the claim. “The identical invention must be shown in as complete detail as is contained in the claim.” That is, “[t]here must be no difference between the claimed invention and the reference disclosure...” *Scripps Clinic & Research Foundation v. Genetech Inc.*, 927 F.2d 1565 (Fed Cir. 1991); *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236 (Fed. Cir 1989); *See also* M.P.E.P. (Manual of Patent Examining Procedure) § 2131. Further, “anticipation requires that ... the prior art reference must be enabling, thus placing the alleged disclosed matter in the possession of the public.” *Akzo n.v. v U.S. Int’l Trade Commission*, 808 F.2d 1471 (Fed. Cir. 1986) (citing *In re Brown*, 329 F.2d 1006, 1011 (C.C.P.A. 1964).

The Office Action cites two Figures in the Papp disclosure as enabling of the whole of claim 8, specifically, Figures 4A and 4D (Office Action, Page 4). However, a full analysis of the Papp disclosure compared with the claims makes it clear that the cited references do not disclose the invention in its complete detail.

Claim 8 recites, in part:

a first panel having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second panel having a female edge with a first flap and a second flap extending

therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium,

Firstly, it is not clear at all from the Office Action which of the components of Papp is taken to anticipate the first panel and the second panel in this instance. The rejection for claim 12 states that Papp discloses one or more panels as element 2 (Office Action, p. 4). However, each of Papp's four sleeve elements, 2A, 2B, 2C, and 2D are identical. At no point in the Papp disclosure are any of the sleeves distinguished from one another either in form or function. Therefore, it is unclear what, in Papp, is being construed as the first panel, the male edge of the first panel, the front side of the male edge of the first panel, the rear side of the male edge of the first panel, the female edge of the second panel, the first flap of the female edge of the second panel, the second flap of the female edge of the second panel, or the inner surface thereon.

Applicant's specification defines the terms "male edge" and "female edge" as follows at paragraphs [0011] and [0012]:

Two panels can be connected by placing the first edge of a first panel between the flaps extending from the second edge of a second panel, then moving the flaps to contact the front and rear sides of first edge of the first panel such that the strips of fastening medium along the flaps engage the strips of fastening medium along the first edge.

...

For clarity, an edge having the configuration of the first edge may be referred to herein as a 'male edge' while an edge having the configuration of the second edge may be referred to as a 'female edge.'

Thus, it is clear from Applicant's specification that in order to disclose the invention in identical detail, the Papp disclosure must teach that the two panels are connected by placing an edge of one panel (the "male" edge) between two flaps extending from the edge of a second panel (the "female" edge).

Papp, however, does not disclose this configuration, as the Papp sleeves are not connected to each other, as clearly illustrated by FIG. 2. Furthermore, the "fastening medium" contained on the sleeves of Papp do not fasten to each other, but rather, the fastening medium is used to fasten the sleeves to the underlying bed sheet. (See the discussion of Velcro strips at paragraph [0040]

and [0041] of Papp.) As a result, Papp fails to disclose “wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium,” as, insofar as the sleeves of Papp can be said to have “flaps” (the Velcro strips 16 of FIG. 4D), these flaps do not engage a front side and a rear side of an edge of a different panel, but instead uniformly engage the bedsheet beneath the sleeves.

The above arguments also apply to the rejection of claim 12, which also contains the limitations of a male edge having a first and second side, engaged between two flaps of a female edge. However, the Office further cites FIG. 3 in the rejection of claim 12, suggesting it enables the sixth paragraph of claim 12, which reads:

wherein the second panel is engaged with the first panel via engagement between the first female edge and the second male edge, wherein the third panel is engaged with the second panel via engagement between the second female edge and the third male edge, wherein the fourth panel is engaged with the third panel via engagement between the third female edge and the fourth male edge, and wherein the first panel is engaged with the fourth panel via engagement between the fourth female edge and the first male edge; and

However, FIG. 3 fails to disclose this, as a close reading of Papp indicates that FIG. 3 is illustrating the bumpers, rather than the sleeves. Paragraph [0044] of Papp reads, in total:

FIG. 3 illustrates a top view of an alternative securing arrangement for the bumpers without showing the bed sheet and optional sleeves. Each bumper (2A, 2B, 2C, 2D) may be formed by a substantially rigid, but forgiving, plastic or foam or could be air inflatable. Optionally, each bumper may include a reinforcement bar (10) disposed substantially coaxially within the plastic or foam.

Thus, it is clear that, in FIG. 3, elements 2A, 2C, 2C, 2D illustrate the bumpers, not the sleeves, which are explicitly optional. As shown in FIG. 3 and discussed in paragraphs [0045]-[0046] of Papp, the bumpers are connected by a “threaded engagement” to form a substantially rectangular closed area. The sleeves (which are held on Page 4 of the rejection to be entirely separate and do not intersect, as illustrated by FIG. 2 and FIG. 4.

Finally, claims 8 and 12 also read, in part:

wherein the engagement between the first panel and the second panel ... forms a seal adapted to maintain a pressure differential across opposing sides thereof.

This previously allowed subject matter was withdrawn in the Office Action of August 24, 2015.

However, the only additional reason given for this rejection is a citation to paragraph [0041] of the Papp disclosure. This paragraph reads, in its entirety:

With reference to FIGS. 1 and 4, four sleeves (2A, 2B, 2C, 2D), for example, may be stitched (14) to the top surface of the bed sheet as shown in FIG. 4B, snapped (15) to the top surface of the bed sheet as shown in FIG. 4C, or attached by Velcro strips (16) to the top surface of the bed sheet as shown in FIG. 4D. A bumper (3A, 3B, 3C, 3D) may be slidably inserted into each sleeve (2A, 2B, 2C, 2D, respectively). Preferably, the opening of each sleeve is sized substantially equally to the cross section of the bumper so as to firmly hold the bumper in place when inserted.

Applicant can discern no teaching in this paragraph regarding maintaining a pressure differential across opposing sides of the first and second panels. In fact, the word “pressure” does not appear once in the entire Papp disclosure. Papp instead teaches “air flow passages” such that any pressure differential could not be maintained between the inside and outside of the enclosure. (See paragraphs [0030]-[0032] of Papp). Therefore, Papp does not teach “wherein the engagement between the first panel and the second panel ... forms a seal adapted to maintain a pressure differential across opposing sides thereof” and applicant respectfully requests that this rejection be withdrawn.

For at least the above reasons, therefore, Applicant believes that the Papp reference does not anticipate base claims 8 and 12. As claims 9-11 are dependent from claim 8 and include all limitations thereof, and claims 13-17 and 19-20 are dependent from claim 11 and include all limitations thereof, Applicant believes that these claims are also distinct for at least the same reasons, and respectfully requests withdrawal of all anticipation rejections.

No Waiver

All of Applicants’ arguments and amendments are without prejudice or disclaimer. Additionally, Applicants have merely discussed example distinctions from the cited references. Other distinctions may exist, and Applicants reserve the right to discuss these additional distinctions in a later response or on appeal, if appropriate. By not responding to additional statements made by Examiner, Applicants do not acquiesce to Examiner’s additional statements, such as, for example, any statements relating to anticipation, what would be obvious to a person of ordinary skill in the art, and so forth.

CONCLUSION

Applicant appreciates Examiner's time and attention to this matter. Applicant believes no new subject matter has been added with the amendments and remarks submitted herewith.

Applicant respectfully submits that the application is now in condition for allowance and requests that the rejections be withdrawn and the application advance to issue. Applicant believes no additional fees are required beyond the RCE fee submitted herewith, but if any are required, the Commissioner is hereby authorized to deduct such fees from Deposit Account Number 13-2166.

The Examiner is respectfully invited to call Applicant's representative at 713-355-4200, to discuss any matters that may arise, where such discussion may resolve such matters and advance this application to issue.

Respectfully submitted,

Date: November 20, 2015

/Joshua Shamburger/
Joshua Shamburger
Reg. No. 67,837
The Matthews Firm (Customer # 021897)
2000 Bering, Ste. 700
Houston, Texas 77057
(713) 355-4200 - Telephone
(713) 355-9689 - Facsimile

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/461,553	Filing Date 05/01/2012	☐ To be Mailed
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 ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

	11/20/2015	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	Total (37 CFR 1.16(i))	* 12	Minus	** 21	= 0	X \$40 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***4	= 0	X \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE							0

(Column 1)

(Column 2)

(Column 3)

	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =
	☐ Application Size Fee (37 CFR 1.16(s))					
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
TOTAL ADD'L FEE						

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

 LIE
 /SHARON HARRIS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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IPR2025-01214

EX1002

Page 46 of 190



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/461,553	05/01/2012	Samer U. Al-Azem	Al-Azem-001	1024

21897 7590 08/20/2015
Matthews, Lawson, McCutcheon & Joseph, PLLC
2000 BERING DRIVE
SUITE 700
HOUSTON, TX 77057

EXAMINER

COLLINS, RAVEN

ART UNIT	PAPER NUMBER
----------	--------------

3788

MAIL DATE	DELIVERY MODE
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08/20/2015

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/461,553	Applicant(s) AL-AZEM, SAMER U.	
	Examiner RAVEN COLLINS	Art Unit 3788	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07/08/2015.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 8-17, 19 and 20 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) ☒ Claim(s) 12-17 and 19 is/are allowed.
- 7) ☒ Claim(s) 8-11, 18 and 20 is/are rejected.
- 8) ☐ Claim(s) _____ is/are objected to.
- 9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) ☐ Notice of References Cited (PTO-892) | 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____ | 4) ☐ Other: _____ |

Art Unit: 3788

1. The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

2. This action is written in response to the amendment filed 07/08/2015

Claim Rejections - 35 USC § 102

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.
2. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 5-10, 12-17, 19 and 20 are rejected under pre-AIA 35 U.S.C. 102b as being anticipated by Papp (US 2011/0296612).

1, 18, 20: Papp discloses a panel 2 for forming an enclosure, the panel comprising:
a first edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium 16 thereon; and

a second edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium 16 thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap is adapted for engagement with the front side of the first edge, and wherein the second flap is adapted for engagement with the rear side of the first edge;

Art Unit: 3788

wherein the engagement between the first panel and the second panel forms a seal adapted to maintain a pressure differential across opposing sides thereof ([0041] also fig. 4D).

5: Papp discloses the panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium ([0041]).

6, 7: Papp discloses the panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, extend substantially along an entire length of the first edge, the second edge, or combinations thereof ([0041]).

8. Papp discloses an enclosure comprising: a first panel having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second panel having a female edge with a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium (fig. 4A, D).

9: Papp discloses the enclosure of claim 8, wherein engagement between the first flap and the front side, engagement between the second flap and the rear side, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof ([0041]).

10: Papp discloses the enclosure of claim 8, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a

Art Unit: 3788

plurality of strips of a hook and loop fastening medium ([0041]).

12: Papp discloses an enclosure comprising:

a wall comprising a first panel 2, a second panel 2, a third panel 2, and a fourth panel 2 (fig. 2),

wherein the first panel comprises a first male edge having a front side and a rear side and a first female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel comprises a second male edge having a front side and a rear side and a second female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the third panel comprises a third male edge having a front side and a rear side and a third female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the fourth panel comprises a fourth male edge having a front side and a rear side and a fourth female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon ([0041] also fig. 4A, D),

wherein the second panel is engaged with the first panel via engagement between the first female edge and the second male edge, wherein the third panel is engaged with the

Art Unit: 3788

second panel via engagement between the second female edge and the third male edge, wherein the fourth panel is engaged with the third panel via engagement between the engagement between a first portion of the wall and a second portion of the wall (fig. 3).

13, 14: Papp discloses the enclosure of claim 12, wherein engagement between the first panel and the second panel defines a first axis, and wherein engagement between the third panel and the fourth panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall (fig. 3).

15: Papp discloses the enclosure of claim 12, further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner edge comprising a second portion of the fastening medium for engagement with at least one additional panel (fig. 4D).

16: Papp discloses the enclosure of claim 12, wherein each first portion of the fastening medium, each second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium ([0041]).

17: Papp discloses the enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof ([0041] also fig. 3).

19: Papp discloses the enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first

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panel, or combinations thereof, comprise engagement between a first of said flaps and one of the front sides and a second of said flaps and one of the rear sides via engagement between the first portion and the second portion of the fastening medium ([0041] also fig. 3 and 4D).

Claim Rejections - 35 USC § 103

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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4. Claims 2 and 3 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Papp (US 2011/0296612).

2, 3: Papp discloses a first and second sided panel having engageable flaps with fastening mechanisms but fails to teach a third side. Figure 2 of Papp shows a four sided arrangement. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to include multiple stacked drawers, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

5. Claims 4 and 11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Papp (US 2011/0296612).

4, 11: Papp fails to disclose a heat resistant material. Hughes teaches the panel of claim 1, wherein the panel is formed at least partially from a heat resistant material ([0046]). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Papp to include the heat resistant material of Hughes in order to maintain the safety of objects being coddled by the panels.

Response to Arguments

After further search and consideration, previously allowed claim 18 has been rejected. No new art has been applied and the rejection is maintained.

Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

Art Unit: 3788

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAVEN COLLINS whose telephone number is (571)270-1672. The examiner can normally be reached on M-F 9:30-6:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Stashick can be reached on 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RAVEN COLLINS/

Application/Control Number: 13/461,553

Page 9

Art Unit: 3788

Examiner, Art Unit 3788

/Anthony Stashick/

Supervisory Patent Examiner, Art Unit 3788

<i>Index of Claims</i> 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant		☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		DATE							
Final	Original	03/23/2014	02/04/2015	07/24/2015	07/24/2015				
	1	✓	✓	-					
	2	✓	✓	-					
	3	✓	✓	-					
	4	✓	✓	-					
	5	✓	✓	-					
	6	✓	✓	-					
	7	✓	✓	-					
	8	✓	✓	✓					
	9	✓	✓	✓					
	10	✓	✓	✓					
	11	✓	✓	✓					
	12	✓	✓	=					
	13	✓	✓	=					
	14	✓	✓	=					
	15	✓	✓	=					
	16	✓	✓	=					
	17	✓	✓	=					
	18	✓	O	✓					
	19	✓	✓	=					
	20	✓	✓	✓					
	21		N	-					



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BIB DATA SHEET

CONFIRMATION NO. 1024

SERIAL NUMBER 13/461,553	FILING or 371(c) DATE 05/01/2012 RULE	CLASS 220	GROUP ART UNIT 3788	ATTORNEY DOCKET NO. Al-Azem-001	
APPLICANTS INVENTORS Samer U. Al-Azem, Houston, TX; ** CONTINUING DATA ***** This appln claims benefit of 61/481,296 05/02/2011 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 05/14/2012					
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/RAVEN COLLINS/</u> Examiner's Signature	☐ Met after Allowance <u>Initials</u>	STATE OR COUNTRY TX	SHEETS DRAWINGS 5	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 4
ADDRESS Matthews, Lawson, McCutcheon & Joseph, PLLC 2000 BERING DRIVE SUITE 700 HOUSTON, TX 77057 UNITED STATES					
TITLE ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES					
FILING FEE RECEIVED 655	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Search Notes 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

CPC- SEARCHED		
Symbol	Date	Examiner
A47G9/0246	03/23/2014	RC
B65D33/00	03/23/2014	RC
B65D33/08	03/23/2014	RC

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
220	612, 531, 530, 529	03/19/2014	RC
428	100	03/19/2014	RC
493	128	03/19/2014	RC
	updated search	02/04/2015	RC
2	69	03/02/2015	RC
220	4.22, 552, 551	03/02/2015	RC

SEARCH NOTES		
Search Notes	Date	Examiner
class search	03/17/2014	RC
consulted R. Hicks	03/12/2014	RC
updated search	03/02/2015	RC

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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OK TO ENTER: /R.C./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	§	
	§	
Samer U. Al-Azem	§	Attorney Docket: Al-Azem-001
	§	
Serial No.: 13/461,553	§	Examiner: Raven Collins
	§	
Filed: May 1, 2012	§	Art Unit: 3788
	§	
For: ATTACHMENT SYSTEMS AND	§	Confirmation Number: 1024
METHODS USABLE TO FORM	§	
ENCLOSURES	§	

MAIL STOP AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AFTER-FINAL AMENDMENTS AND RESPONSE TO
FINAL OFFICE ACTION DATED APRIL 8, 2015

In response to the Final Office Action dated April 8, 2015, Applicant submits the following after-final amendments and remarks, and respectfully requests entry and consideration of same. It is believed that no new matter is introduced with this response.

Claims begin on Page 2.

Remarks begin on Page 6.

Conclusion is on Page 7.

OK TO ENTER: /R.C./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	§	
	§	
Samer U. Al-Azem	§	Attorney Docket: Al-Azem-001
	§	
Serial No.: 13/461,553	§	Examiner: Raven Collins
	§	
Filed: May 1, 2012	§	Art Unit: 3788
	§	
For: ATTACHMENT SYSTEMS AND	§	Confirmation Number: 1024
METHODS USABLE TO FORM	§	
ENCLOSURES	§	

MAIL STOP AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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In response to the Final Office Action dated April 8, 2015, Applicant submits the following after-final amendments and remarks, and respectfully requests entry and consideration of same. It is believed that no new matter is introduced with this response.

Claims begin on Page 2.

Remarks begin on Page 6.

Conclusion is on Page 7.

CLAIMS

1. – 7. (Cancelled)

8. (Currently Amended) An enclosure comprising:

a first panel having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second panel having a female edge with a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium,

wherein the engagement between the first panel and the second panel forms a seal adapted to maintain a pressure differential across opposing sides thereof.

9. (Original) The enclosure of claim 8, wherein engagement between the first flap and the front side, engagement between the second flap and the rear side, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.

10. (Original) The enclosure of claim 8, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.

11. (Original) The enclosure of claim 8, wherein the first panel, the second panel, or combinations thereof, is formed at least partially from a heat resistant material.

12. (Currently Amended) An enclosure comprising:

a wall comprising a first panel, a second panel, a third panel, and a fourth panel,

wherein the first panel comprises a first male edge having a front side and a rear side and a first female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon, and wherein said at least two

flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel comprises a second male edge having a front side and a rear side and a second female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the third panel comprises a third male edge having a front side and a rear side and a third female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the fourth panel comprises a fourth male edge having a front side and a rear side and a fourth female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel is engaged with the first panel via engagement between the first female edge and the second male edge, wherein the third panel is engaged with the second panel via engagement between the second female edge and the third male edge, wherein the fourth panel is engaged with the third panel via engagement between the third female edge and the fourth male edge, and wherein the first panel is engaged with the fourth panel via engagement between the fourth female edge and the first male edge; and

wherein the engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.

13. (Original) The enclosure of claim 12, wherein engagement between the first panel and the second panel defines a first axis, and wherein engagement between the third panel and the fourth

panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall.

14. (Original) The enclosure of claim 12, wherein engagement between the second panel and the third panel defines a first axis, and wherein engagement between the fourth panel and the first panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall.

15. (Original) The enclosure of claim 12, wherein the first panel, the second panel, the third panel, the fourth panel, or combinations thereof, further comprise at least one additional edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon for engagement with at least one additional panel.

16. (Original) The enclosure of claim 12, further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner edge comprising a second portion of the fastening medium for engagement with at least one additional panel.

17. (Original) The enclosure of claim 12, wherein each first portion of the fastening medium, each second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.

18. (Cancelled)

19. (Original) The enclosure of claim 12, further comprising at least one additional wall engaged with the wall to form an enclosed space adapted for performing hot work, for containing a pressure differential therein, or combinations thereof.

20. (Original) The enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, comprise engagement between a first of said flaps and one of the front

sides and a second of said flaps and one of the rear sides via engagement between the first portion and the second portion of the fastening medium.

21. (Cancelled)

REMARKS

This paper is intended as a complete reply to the Final Office Action dated April 8, 2015.

Current Status of Claims

Claims 8-17 and 19-20 are currently pending in the Application.

Claims 8 and 12 are amended by way of this response.

Claims 1-7, 18, and 21 are cancelled without prejudice.

Allowable Subject Matter

Applicant appreciates the Examiner's indication that claim 18 contains allowable subject matter if rewritten in independent form including all base claims. Applicant has incorporated claim 18 into base claim 12, thereby placing claim 12 in condition for allowance and accordingly cancelling claim 12. It is believed that this amendment also renders claims 13-17 and 19-20 allowable as being dependent on an allowable base claim.

Additionally, Applicant has incorporated the subject matter of claim 12 into base claim 8 as well. It is believed that this amendment also renders claim 8 allowable as neither Papp '612 nor Hughes '545 teaches this limitation. Claims 9-11 are also believed to be allowable for at least the foregoing reasons.

Claims 1-7 and 21 are cancelled by way of this response. Applicant makes no waiver with regards to the teachings of Papp '612 or any other prior art and reserves the right to pursue the cancelled subject matter in a continuation application.

CONCLUSION

Applicant appreciates Examiner's time and attention to this matter. Applicant believes no new subject matter has been added with the amendments and remarks submitted herewith.

Applicant respectfully submits that the application is now in condition for allowance and requests that the rejections be withdrawn and the application advance to issue. Applicant believes no additional fees are required, but if any are required, the Commissioner is hereby authorized to deduct such fees from Deposit Account Number 13-2166.

The Examiner is respectfully invited to call Applicant's representative at 713-355-4200, to discuss any matters that may arise, where such discussion may resolve such matters and advance this application to issue.

Respectfully submitted,

Date: July 8, 2015

/Joshua Shamburger/
Joshua Shamburger
Reg. No. 67,837
Matthews, Lawson, McCutcheon & Joseph, PLLC
(Customer # 021897)
2000 Bering, Ste. 700
Houston, Texas 77057
(713) 355-4200 - Telephone
(713) 355-9689 - Facsimile

Electronic Acknowledgement Receipt

EFS ID:	22861646
Application Number:	13461553
International Application Number:	
Confirmation Number:	1024
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES
First Named Inventor/Applicant Name:	Samer U. Al-Azem
Customer Number:	21897
Filer:	Terry L. McCutcheon/John Watkins
Filer Authorized By:	Terry L. McCutcheon
Attorney Docket Number:	Al-Azem-001
Receipt Date:	08-JUL-2015
Filing Date:	01-MAY-2012
Time Stamp:	17:18:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response After Final Action	ROA.pdf	83562 10ebb7cdae9b2c174c2458881d530094ace5401	no	7

Warnings:

Information:

IPR2025-01214

EX1002

Page 68 of 190

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/461,553	Filing Date 05/01/2012	☐ To be Mailed
---	---	----------------------------------	---------------------------------------

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO**APPLICATION AS FILED – PART I**

(Column 1)

(Column 2)

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

	07/08/2015	CLAIMS REMAINING AFTER AMENDMENT	Minus	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	Total (37 CFR 1.16(i))	* 12	Minus	** 21	= 0	X \$40 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	***4	= 0	X \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE							0

(Column 1)

(Column 2)

(Column 3)

	CLAIMS REMAINING AFTER AMENDMENT	Minus	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =
	☐ Application Size Fee (37 CFR 1.16(s))					
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
TOTAL ADD'L FEE						

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/Ruby Johnson/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IPR2025-01214

EX1002

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/461,553	05/01/2012	Samer U. Al-Azem	Al-Azem-001	1024

21897 7590 04/08/2015
Matthews, Lawson, McCutcheon & Joseph, PLLC
2000 BERING DRIVE
SUITE 700
HOUSTON, TX 77057

EXAMINER

COLLINS, RAVEN

ART UNIT	PAPER NUMBER
----------	--------------

3788

MAIL DATE	DELIVERY MODE
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04/08/2015

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/461,553	Applicant(s) AL-AZEM, SAMER U.	
	Examiner RAVEN COLLINS	Art Unit 3788	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10/24/2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-21 is/are pending in the application.
5a) Of the above claim(s) 21 is/are withdrawn from consideration.
- 6) ☐ Claim(s) _____ is/are allowed.
- 7) ☒ Claim(s) 1-17, 19 and 20 is/are rejected.
- 8) ☒ Claim(s) 18 is/are objected to.
- 9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date 10/23/2014.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 4) ☐ Other: _____.

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1. The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

2. This action is written in response to the amendment filed 10/23/2014

- Claim 1 has been amended and claim 21 has been added
- Claims 1-21 are presented for examination
- This action is Final

Election/Restrictions

1. Newly submitted claim 21 is directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: the blower needed for the operation of the system was not supplied in originally filed application.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claim 21 is withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

Art Unit: 3788

4. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 5-10, 12-17, 19 and 20 are rejected under pre-AIA 35 U.S.C. 102b as being anticipated by Papp (US 2011/0296612).

1, 20: Papp discloses a panel 2 for forming an enclosure, the panel comprising:
a first edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium 16 thereon; and

a second edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium 16 thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap is adapted for engagement with the front side of the first edge, and wherein the second flap is adapted for engagement with the rear side of the first edge ([0041] also fig. 4D).

5: Papp discloses the panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium ([0041]).

6, 7: Papp discloses the panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, extend substantially along an entire length of the first edge, the second edge, or combinations thereof ([0041]).

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8. Papp discloses an enclosure comprising: a first panel having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second panel having a female edge with a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium (fig. 4A, D).

9: Papp discloses the enclosure of claim 8, wherein engagement between the first flap and the front side, engagement between the second flap and the rear side, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof ([0041]).

10: Papp discloses the enclosure of claim 8, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium ([0041]).

12: Papp discloses an enclosure comprising:

a wall comprising a first panel 2, a second panel 2, a third panel 2, and a fourth panel 2 (fig. 2),

wherein the first panel comprises a first male edge having a front side and a rear side and a first female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel comprises a second male edge having a front side and a rear side and a second female edge having at least two flaps extending therefrom, wherein the front

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side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the third panel comprises a third male edge having a front side and a rear side and a third female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the fourth panel comprises a fourth male edge having a front side and a rear side and a fourth female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon ([0041] also fig. 4A, D),

wherein the second panel is engaged with the first panel via engagement between the first female edge and the second male edge, wherein the third panel is engaged with the second panel via engagement between the second female edge and the third male edge, wherein the fourth panel is engaged with the third panel via engagement between the engagement between a first portion of the wall and a second portion of the wall (fig. 3).

13, 14: Papp discloses the enclosure of claim 12, wherein engagement between the first panel and the second panel defines a first axis, and wherein engagement between the third panel and the fourth panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall (fig. 3).

15: Papp discloses the enclosure of claim 12, further comprising at least one additional

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edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner edge comprising a second portion of the fastening medium for engagement with at least one additional panel (fig. 4D).

16: Papp discloses the enclosure of claim 12, wherein each first portion of the fastening medium, each second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium ([0041]).

17: Papp discloses the enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof ([0041] also fig. 3).

19: Papp discloses the enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, comprise engagement between a first of said flaps and one of the front sides and a second of said flaps and one of the rear sides via engagement between the first portion and the second portion of the fastening medium ([0041] also fig. 3 and 4D).

Claim Rejections - 35 USC § 103

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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3. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claims 2 and 3 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Papp (US 2011/0296612).

2, 3: Papp discloses a first and second sided panel having engageable flaps with fastening mechanisms but fails to teach a third side. Figure 2 of Papp shows a four sided arrangement. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to include multiple stacked drawers, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

6. Claims 4 and 11 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Papp (US 2011/0296612).

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4, 11: Papp fails to disclose a heat resistant material. Hughes teaches the panel of claim 1, wherein the panel is formed at least partially from a heat resistant material ([0046]). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Papp to include the heat resistant material of Hughes in order to maintain the safety of objects being coddled by the panels.

Allowable Subject Matter

7. Claim 18 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but in view of the amendment the search has been updated, new prior art has been identified and applied, and a new rejection has been made.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAVEN COLLINS whose telephone number is (571)270-1672. The examiner can normally be reached on M-F 9:30-6:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Stashick can be reached on 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RAVEN COLLINS/

Application/Control Number: 13/461,553

Page 10

Art Unit: 3788

Examiner, Art Unit 3788

/Anthony Stashick/

Supervisory Patent Examiner, Art Unit 3788

Notice of References Cited	Application/Control No. 13/461,553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.	
	Examiner RAVEN COLLINS	Art Unit 3788	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,170,505	12-1992	Rohrer, Nancy D.	2/69
*	B	US-2006/0174525	08-2006	Hughes, Robert P.	040/603
*	C	US-2011/0296612	12-2011	PAPP et al.	5/424
	D	US-			
	E	US-			
	F	US-			
	G	US-			
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	I	US-			
	J	US-			
	K	US-			
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FOREIGN PATENT DOCUMENTS

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*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13461553	
	Filing Date		2012-05-01	
	First Named Inventor	Al-Azem, Samer U.		
	Art Unit	3788		
	Examiner Name	Collins, Raven		
	Attorney Docket Number	Al-Azem-001		

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5316541		1994-05-31	Fischer	

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	1	WO2007148075 A1	GB		2007-12-27	Philip Graham Watters		☐

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13461553
Filing Date	2012-05-01
First Named Inventor	Al-Azem, Samer U.
Art Unit	3788
Examiner Name	Collins, Raven
Attorney Docket Number	Al-Azem-001

1		☐
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EXAMINER SIGNATURE

Examiner Signature	/Raven Collins/	Date Considered	02/04/2015
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13461553
Filing Date	2012-05-01
First Named Inventor	Al-Azem, Samer U.
Art Unit	3788
Examiner Name	Collins, Raven
Attorney Docket Number	Al-Azem-001

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joshua Shamburger/	Date (YYYY-MM-DD)	2014-10-23
Name/Print	Joshua Shamburger	Registration Number	67837

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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BIB DATA SHEET

CONFIRMATION NO. 1024

SERIAL NUMBER 13/461,553	FILING or 371(c) DATE 05/01/2012 RULE	CLASS 220	GROUP ART UNIT 3788	ATTORNEY DOCKET NO. Al-Azem-001	
APPLICANTS INVENTORS Samer U. Al-Azem, Houston, TX; ** CONTINUING DATA ***** This appln claims benefit of 61/481,296 05/02/2011 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 05/14/2012					
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/RAVEN COLLINS/</u> Examiner's Signature	☐ Met after Allowance <u>Initials</u>	STATE OR COUNTRY TX	SHEETS DRAWINGS 5	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 4
ADDRESS Matthews, Lawson, McCutcheon & Joseph, PLLC 2000 BERING DRIVE SUITE 700 HOUSTON, TX 77057 UNITED STATES					
TITLE ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES					
FILING FEE RECEIVED 655	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

Search Notes 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

CPC- SEARCHED		
Symbol	Date	Examiner
A47G9/0246	03/23/2014	RC
B65D33/00	03/23/2014	RC
B65D33/08	03/23/2014	RC

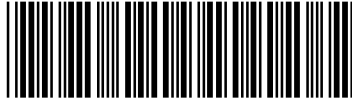
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Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
220	612, 531, 530, 529	03/19/2014	RC
428	100	03/19/2014	RC
493	128	03/19/2014	RC
	updated search	02/04/2015	RC
2	69	03/02/2015	RC
220	4.22, 552, 551	03/02/2015	RC

SEARCH NOTES		
Search Notes	Date	Examiner
class search	03/17/2014	RC
consulted R. Hicks	03/12/2014	RC
updated search	03/02/2015	RC

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/RAVEN COLLINS/ Examiner.Art Unit 3788	
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<i>Index of Claims</i> 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant				☐ CPA				☐ T.D.				☐ R.1.47			
CLAIM		DATE													
Final	Original	03/23/2014	02/04/2015												
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S3	2046	428/100	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/13 13:12
S4	0	("2012/0279972").URPN.	USPAT	OR	ON	2014/03/13 14:50
S5	179	220/531	USPAT	OR	ON	2014/03/13 15:11
S6	256	220/530	USPAT	OR	ON	2014/03/13 18:14
S7	316	493/128	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/19 14:19
S8	553	("0110991" "0174262" "0470553" "0513726" "0529230" "0598431" "0662619" "0705270" "0732983" "0869833" "0887532" "0919745" "0941013" "1046021" "1075844" "1089939" "1190797" "1211760" "1211853" "1221785" "1311651" "1318007" "1338776" "1369704" "1495046" "1513860" "1523136" "1599110" "1640525" "1696349" "1734049" "1768379" "1833419" "1886879" "1897143" "1933643" "20020053575" "20020100535" "20020162842" "20030006273"	US-PGPUB; USPAT; USOCR	OR	ON	2014/03/19 17:32

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S9	832	220 / 529	US- PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/23 21:21

S10	8919	panel and flap and (hook and loop) and edge	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/23 21:32
S11	146	S10 AND ((A47G9/02 OR A47G9/0246 OR B29C55/023 OR B29C65/7847 OR B29C66/344 OR B29C66/4722 OR B29C66/83411 OR B42D15/045 OR B65B11/004 OR B65B1/04 OR B65D31/16 OR B65D33/00 OR B65D33/065 OR B65D5/00 OR B65D5/20 OR B65D5/4216 OR B65D5/4233 OR B65D5/425 OR B65D5/64 OR B65D5/66 OR B65D65/22 OR B65D73/0078 OR B65D75/008 OR B65D75/5855 OR B65D75/5861 OR B65D85/18 OR B65D85/185 OR B65D85/30 OR F16M13/02).CPC.)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/23 21:42
S12	10	("5316541" "4257207" "7014057" "20080282652").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2015/01/27 21:00
S13	832	panel with flap with (hook and loop)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/02/04 16:54
S14	361	panel with flap with velcro	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/02/04 16:55
S15	6093	2/69	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/02/04 17:45
S16	11343	panel with (velcro or (hook and loop))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/02/04 17:45
S17	354	S15 and S16	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2015/02/04 17:46

EAST Search History (Interference)

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/461,553	05/01/2012	Samer U. Al-Azem	Al-Azem-001

CONFIRMATION NO. 1024

POA ACCEPTANCE LETTER



21897
Matthews, Lawson, McCutcheon & Joseph, PLLC
2000 BERING DRIVE
SUITE 700
HOUSTON, TX 77057

Date Mailed: 10/28/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/23/2014.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/sleutchit/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	§	
	§	
Samer U. Al-Azem	§	Attorney Docket: Al-Azem-001
	§	
Serial No.: 13/461,553	§	Examiner: Raven Collins
	§	
Filed: May 1, 2012	§	Art Unit: 3788
	§	
For: ATTACHMENT SYSTEMS AND	§	Confirmation Number: 1024
METHODS USABLE TO FORM	§	
ENCLOSURES	§	

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENTS AND RESPONSE TO OFFICE ACTION DATED JUNE 10, 2014

In response to the Office Action dated June 10, 2014, Applicant submits the following amendments and remarks, as well as a two-month extension of time and a supplemental information disclosure statement, and respectfully requests entry and consideration of same. It is believed that no new matter is introduced with this response.

Claims begin on Page 2.

Remarks begin on Page 7.

Conclusion is on Page 12.

CLAIMS

1. (Currently Amended) A panel for forming an enclosure, the panel comprising:

a first edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap is adapted for engagement with the front side of the first edge, and wherein the second flap is adapted for engagement with the rear side of the first edge.
2. (Original) The panel of claim 1, further comprising at least one additional edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon.
3. (Original) The panel of claim 1, further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium.
4. (Original) The panel of claim 1, wherein the panel is formed at least partially from a heat resistant material.
5. (Original) The panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.
6. (Original) The panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, extend substantially along an entire length of the first edge, the second edge, or combinations thereof.
7. (Original) The panel of claim 1, wherein the first edge comprises a length generally equal to a length of the second edge.
8. (Original) An enclosure comprising:

a first panel having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second panel having a female edge with a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium.

9. (Original) The enclosure of claim 8, wherein engagement between the first flap and the front side, engagement between the second flap and the rear side, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.

10. (Original) The enclosure of claim 8, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.

11. (Original) The enclosure of claim 8, wherein the first panel, the second panel, or combinations thereof, is formed at least partially from a heat resistant material.

12. (Original) An enclosure comprising:

a wall comprising a first panel, a second panel, a third panel, and a fourth panel,

wherein the first panel comprises a first male edge having a front side and a rear side and a first female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel comprises a second male edge having a front side and a rear side and a second female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the third panel comprises a third male edge having a front side and a rear side and a third female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the fourth panel comprises a fourth male edge having a front side and a rear side and a fourth female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel is engaged with the first panel via engagement between the first female edge and the second male edge, wherein the third panel is engaged with the second panel via engagement between the second female edge and the third male edge, wherein the fourth panel is engaged with the third panel via engagement between the third female edge and the fourth male edge, and wherein the first panel is engaged with the fourth panel via engagement between the fourth female edge and the first male edge.

13. (Original) The enclosure of claim 12, wherein engagement between the first panel and the second panel defines a first axis, and wherein engagement between the third panel and the fourth panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall.

14. (Original) The enclosure of claim 12, wherein engagement between the second panel and the third panel defines a first axis, and wherein engagement between the fourth panel and the first panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall.

15. (Original) The enclosure of claim 12, wherein the first panel, the second panel, the third panel, the fourth panel, or combinations thereof, further comprise at least one additional edge

having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon for engagement with at least one additional panel.

16. (Original) The enclosure of claim 12, further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner edge comprising a second portion of the fastening medium for engagement with at least one additional panel.

17. (Original) The enclosure of claim 12, wherein each first portion of the fastening medium, each second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.

18. (Original) The enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.

19. (Original) The enclosure of claim 12, further comprising at least one additional wall engaged with the wall to form an enclosed space adapted for performing hot work, for containing a pressure differential therein, or combinations thereof.

20. (Original) The enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, comprise engagement between a first of said flaps and one of the front sides and a second of said flaps and one of the rear sides via engagement between the first portion and the second portion of the fastening medium.

21. (New) A system for forming a modular enclosure for hot-work operations, wherein the system comprises:

a plurality of panels, wherein each panel comprising two male edges and two female edges, wherein each male edge comprises a front side and a rear side, and each female

edge comprises a first flap and a second flap, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon, wherein the first flap and the second flap each comprise an inner surface comprising a second portion of a fastening medium thereon, wherein each panel of the plurality of panels is configured to engage at least one other panel of the plurality of panels by means of the first flap engaging with the front side of the male edge and the second flap engaging with the rear side of the male edge;

a blower configured to transport one or more gases into the enclosure; and

at least one conduit panel, wherein the conduit panel comprises two male edges and two female edges to engage with the plurality of panels, and additionally wherein the at least one conduit panel comprises an engagement apparatus for engaging the blower.

REMARKS

This paper is intended as a complete reply to the Office Action dated June 10, 2014.

Current Status of Claims

Claims 1-20 are currently pending in the Application.

Claim 1 is currently amended.

Claim 21 is newly added in this response.

35 USC §102/103 (Wang)

The Office rejects claims 1-2 and 5 under 35 USC § 102(b) as anticipated by Wang (US 7,014,057). Additionally, the Office rejects claims 3 and 6-7 as being rendered obvious under 35 USC 103(a) by Wang. Applicant respectfully amends and traverses.

Applicant respectfully traverses the finding that Wang discloses “a first edge having a front side and rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon.” The Office states that the locating flap(s) 15 of Wang are analogous to the “first edge” of the current invention. Office Action, p. 2. However, the locating flap(s) 15 of Wang do not comprise a front side and a rear side where each side comprises a first portion of a fastening medium thereon. In Wang, the fastening elements 31 of the locating flap(s) 15 are fixed only to the outer surface of the flap(s); thus, Wang contains no teaching or disclosure that the flap(s) could or would also contain a fastening medium on the inner side. Wang 3:65-4:14; FIG. 12. Therefore, Wang does not teach or disclose a front side and a rear side, each comprising a first portion of a fastening medium thereon.

In addition, Applicant has amended the claim language to clarify that the first and second flaps of the second edge engage with the first portions on the front side and the rear side of the first edge. As stated above, Wang lacks a fastening portion on the rear side of its locating flap, and the folding construction of Wang would make it difficult for such an engagement to be contemplated, as a fastening portion located on the opposite side of the locating flap(s) 15 would have no obvious way to engage the side walls 14 and maintain the container shape. Thus,

modifying Wang to meet the limitation of Applicant's claims would require more than a mere duplication of parts as described by *In re Harza*.

Applicant respectfully submits claim 1 is patentably distinct from Wang for at least the foregoing reasons. As claims 2-7 are dependent on claim 1 and include all limitations thereof, Applicant also believes these claims to be distinct from Wang for at least the foregoing reasons.

35 USC §103

The Office rejects claim 4, as well as claims 8-20, as being unpatentably obvious over Davis (US 4,257,207) in view of Wang.

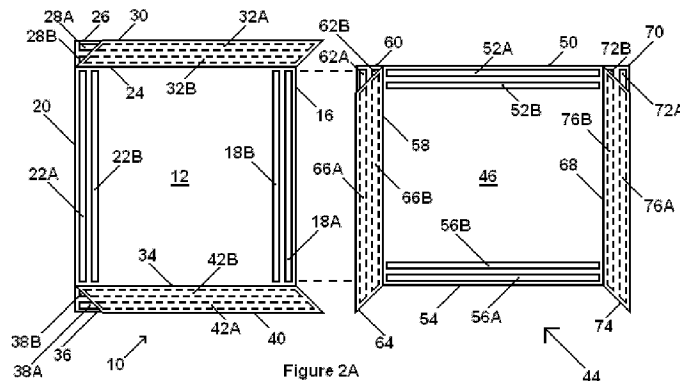
Claims 8 and 12

Applicant first respectfully traverses this rejection with regard to independent claims 8 and 12. The Office states that Davis teaches "a second panel having a female edge with a first flap and a second flap extending therefrom." Applicant respectfully submits that this claim language is not taught by Davis.

The Office states that the panels 13 of Davis are analogous to the second flap, while the connecting member 23 of Davis is analogous to the female edge and the two parts 25 and 26 are analogous to the first flap and second flap. Office Action, p. 4. However, elements 13 and 23 of Davis are clearly separate bodies (Davis, FIG. 9); thus Applicant respectfully submits that connecting member 23 of Davis cannot be construed as an "edge" of element 13. In addition, parts 25 and 26 of the connecting member 23 of Davis cannot be construed as "flaps" of the panel as utilized in the present invention. Further, Applicant respectfully submits that connecting member 23 of Davis fails to meet the limitation of "a female edge," as understood by a person of ordinary skill in the art. The common parlance of engineering would instead identify the panel 13 of Davis (specifically the triangular recesses 18, 19, 21, and 22) as the "female edge" of the attachment mechanism, rather than the connecting member 23, which would constitute the "male edge."

In addition, the claim language further recites "wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the

second portion of the fastening medium.” The office cites FIG. 9, 11, 13, and 17-18 of Davis for this claim language, but these figures do not show Applicant’s claimed invention, as the first element of Applicant’s claim makes clear that both the claimed front side and the claimed rear side of claims 8 and 12 are located on the first panel. By way of illustration, Applicant reproduces FIG. 2A from the present application below:



In this embodiment it can be seen that the second panel (44) comprises two flaps (60, 64) both of which extend to engage the first panel (10) on either side of the male edge (16). By contrast, all of the configurations illustrated in Davis (FIG. 9, 11, 13, 17-18) feature the two parts 25 and 26 of the connecting member 23 engaged with two different panels, rather than a front and rear side of the same panel. Thus, Applicant respectfully submits that the Davis reference fails to teach or disclose either of Applicant’s claimed elements including “a second panel having a female edge with a first flap and a second flap extending therefrom” and “wherein the first flap engages the front side and the second flap engages the rear side.”

Finally, Applicant respectfully traverses the finding that it would be obvious to combine the Wang and Davis references. The Office states that Wang provides evidence that hook/loop fasteners were art-recognized equivalent structures for flap insertion fasteners (Office Action, p. 4). However, the only alternate embodiment disclosed in Wang is a ball-and-socket snap fastener (Wang, 3:65-4:5) and the conventional containers discussed in the background are integrally molded such that they cannot be collapsed without tearing apart (Wang, 1:12-19). Thus, Wang does not appear to contain any disclosure pertaining to flap insertion; therefore, Applicant respectfully submits that there is no rationale provided in the prior art for combining Wang and Davis.

Claims 9 and 17

Applicant respectfully traverses the Office's rejection of claims 9 and 17, as FIG. 18 of Davis does not provide sufficient enablement of the limitation whereby the engagement is sufficient to form a seal adapted to maintain a pressure differential. Davis contains no teaching or disclosure directed towards pressure differentials and is not directed to safety enclosures; Applicant respectfully argues that a mere drawing of an enclosed space is insufficiently enabling of an engagement sufficient to form a seal that is adapted to maintain a pressure differential. Additionally, Applicant respectfully submits that the presence of a pressure differential is taught against by the reference given Davis' use of insertion members for which a pressure differential would present clear difficulties (either in maintaining configuration in the case of a positive differential or in disassembly in the case of a negative differential).

Claims 4 and 11

Applicant respectfully traverses the Office's rejection of claims 4 and 11, as Davis does not disclose that the panels are constructed partially of a heat resistant material. The Office cites Davis 3:36-50 for this disclosure (Office Action, p. 5); however, the cited prior art refers to "a thin material formed as two layers of cardboard between which is sandwiched a layer of resilient foamed plastic; this material is available commercially under the name 'FOAM COR'." Davis 39:44. (Applicant believes this to be a reference by Davis to FOME-COR®, previously owned by Monsanto, Inc., as noted in Davis, and currently owned by 3A Composites USA, Inc.). Applicant respectfully submits that such foam board materials are well-known in the art to be flammable, not heat resistant. As evidence, Applicant has attached the FOME-COR® product Material Safety Data Sheet, which note that the product is "combustible" and not to be used near ignition sources. Thus, Applicant respectfully submits that the disclosure of Davis would not render obvious, and if anything, would teach away from the elements of claims 4 and 11 to a person of ordinary skill in the art.

Claims 13-14

Applicant respectfully traverses the Office's rejection of claims 13-14, as Davis does not disclose the axes of engagement between the two pairs of panels (first/second and third/fourth in

claim 13, and first/fourth and second/third in claim 14) as being offset, nor does Davis disclose the offset forming an overlapping engagement between a first portion of the wall and a second portion of the wall. Firstly, Applicant notes that the offset position of the panels is not simply a matter of design choice, as the specification states in paragraph [0020] such a position conferred improved shear strength and impact resistance. Thus, Applicant respectfully submits that the positioning of the panels, in the embodiments described by claims 13-14n contains a level of criticality above that of a mere design choice. The Office cites FIG. 17 of Davis for the obviousness of these claims. Office Action, p. 5. However, the embodiments depicted in FIGS. 16-17 of Davis do not appear to disclose any offset between the panels, which are shown in a straight 90-degree perpendicular configuration with the panels apparently centered on the connecting member. Additionally, none of the panels overlap as disclosed by the claims. The only overlap is that taught by the insertion attachment mechanism itself, but this overlap is, by definition, not perpendicular to the axis. Thus, Applicant respectfully submits that the offset configuration, depicted by FIG. 3 of the present invention and described by claims 13-14, is not rendered obvious by FIGS. 16-17 of Davis.

For the reasons provided above, Applicant believes claims 8 and 12 are patentably distinct from Davis in view of Wang. As claims 9-11 are dependent on claim 8 and include all limitations thereof, and claims 13-20 are dependent on claim 12 and include all limitations thereof, Applicant respectfully submits that these claims are also non-obvious for at least the same reasons.

Claim 21

Applicant has added new claim 21, which is believed to be supported by at least paragraphs [0061], [0067], and FIG. 4E of the specification.

CONCLUSION

Applicant appreciates Examiner's time and attention to this matter, and Applicant believes no new subject matter has been added with the amendments and remarks submitted herewith.

Applicant respectfully submits that the application is in condition for allowance and requests that the remaining rejections be withdrawn and the application advance to issue. Applicant believes no additional fees are required beyond the two-month extension fees and supplemental IDS fees submitted herewith, but if any are required, the Commissioner is hereby authorized to deduct such fees from Deposit Account Number 13-2166.

The Examiner is respectfully invited to call Applicant's representative at 713-355-4200, to discuss any matters that may arise, where such discussion may resolve such matters and advance this application to issue.

Respectfully submitted,

Date: October 23, 2014

/Joshua Shamburger/
Joshua Shamburger
Reg. No. 67,837
The Matthews Firm (Customer # 021897)
2000 Bering, Ste. 700
Houston, Texas 77057
(713) 355-4200 - Telephone
(713) 355-9689 - Facsimile

3A Composites

Material Safety Data Sheet

Fome-Cor[®]

Initial Release Date: December 2001

Revised July 20, 2010

Section I	Product Identification
-----------	------------------------

Manufacturer:	3A Composites USA, Inc. 205 American Avenue Glasgow, KY 42141 (270) 651-3822
Emergency Phone Number:	1-800-424-9300 Chemtrec To be used only in the event of chemical emergencies involving a spill, leak, fire, and exposure accidents involving chemicals.
Trade Name:	Fome-Cor [®]
Synonym:	Polystyrene Foam Sheet Laminated with Cellulose Paper

Section II	Material Identification and Information
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This product is an "article" as defined in 29 CFR 1910.1200. It will not result in exposure to hazardous components under normal conditions of use.

Note: Nuisance dust may be generated during certain cutting operations. OSHA considers nuisance dust as Particulates Not Otherwise Regulated (PNOR) with an OSHA PEL of 15 mg/m³ (total dust) and 5 mg/m³ (respirable dust). ACGIH considers nuisance dust as Particulates Not Otherwise Classified (PNOC) with an ACGIH TLV of 10 mg/m³ (inhalable particulate) and 3 mg/m³ (respirable particulate).

Section III	Physical Properties
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APPEARANCE AND ODOR:

Rigid polystyrene panel faced with paper.

MOLECULAR WEIGHT:

Not applicable to mixture.

SPECIFIC GRAVITY:

Specific gravity less than water.

SOLUBILITY IN WATER:

Not soluble in water.

pH:

Not applicable to solid product.

3A Composites

Material Safety Data Sheet

Fome-Cor^R

Initial Release Date: December 2001

Revised July 20, 2010

Section IV	Fire and Explosion Data
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FLASH POINT (DEGREES F< PENSKEY MARTINS CLOSED CUP):

Not applicable to solid product.

FIRE EXTINGUISHING MEDIA:

For small fires, use water spray, foam, carbon dioxide or dry chemical extinguishers.

Larger fires should be extinguished immediately by drenching with water spray from fire hose.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear positive pressure self-contained breathing apparatus and protective turnout clothing when involved in fire fighting activities.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

This article and its component are combustible. Do not smoke or use open flames, space heaters or other ignition sources near shipping, storage or use of this product.

HAZARDOUS COMBUSTION PRODUCTS:

Hazardous decomposition may release toxic/hazardous gases.

Section V	Reactivity Data
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STABILITY:

Stable.

INCOMPATIBILITY:

None known.

HAZARDOUS DECOMPOSITION PRODUCTS:

This article may product hazardous gas when burned or heated.

HAZARDOUS POLYMERIZATION:

N/A

Section VI	Health Hazard Data
------------	--------------------

EXPOSURE FROM ROUTINE USE:

Solid or dust can cause irritation to the eyes, nose, throat, lungs, and skin.

EFFECTS OF OVEREXPOSURE:

SKIN AND EYE CONTACT: Solid or dust may cause irritation or corneal injury due to mechanical action.

INGESTION: Ingestion is unlikely due to physical state.

INHALATION: Polystyrene foam dust and paper dust may cause irritation to the upper respiratory tract.

Irritation is reversible when exposure is terminated.

PROBABLE ROUTES OF EXPOSURE:

Skin, eyes, inhalation.

3A Composites

Material Safety Data Sheet

Fome-Cor^R

Initial Release Date: December 2001

Revised July 20, 2010

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: Flush eyes with plenty of water for dust in eyes. Remove affected individual to fresh air if eyes are irritated.

SKIN CONTACT: Wash with water

INHALATION: Remove to fresh air if effects occur. Consult a physician.

INGESTION: No adverse effects anticipated by this route of exposure.

Section VII

Storage, Handling, and Disposal Data

Waste disposal:

Care must be taken when using or disposing of material debris to prevent environmental contamination. Dispose of the debris in accordance with the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act and all state or local laws / regulations regarding disposal.

Storage and handling precautions:

Store in a flat dry area

Handle carefully to avoid scratching product finish. Caution should be taken to avoid sharp edges.

Section VIII

Personal Protection Data

WORK AND HYGIENE PRACTICES:

Practice good personal hygiene when handling product. Avoid blowing dust with compressed air.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Keep open ignition sources out of areas where dust is generated.

VENTILATION AND ENGINEERING CONTROLS:

Provide general and/or local exhaust ventilation to control airborne levels of dust below the exposure guidelines.

RESPIRATORY PROTECTION:

Atmospheric levels of dust should be maintained below the exposure guidelines. When respiratory protection is required for certain operations, be sure to use an approved air-purifying respirator.

EYE PROTECTION:

Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles.

HAND AND BODY PROTECTION:

No skin protection precautions should be required.

3A Composites

Material Safety Data Sheet

Fome-Cor^R

Initial Release Date: December 2001

Revised July 20, 2010

Section IX	Regulatory
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REACH: Pursuant to Title II article 7 of the regulation this product is exempt from registration and notification and is therefore compliant with the REACH regulation.

RoHS: The Gatorfoam and Fome-Cor family of products are compliant with the ROHS standard.

IMPORTANT: The information and data contained herein are believed to be accurate and have been compiled from sources believed to be accurate. All information contained herein is offered for your consideration, information, investigation, and verification. 3A COMPOSITES MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. 3A Composites will not be responsible for claims relating to any parties' use of or reliance on information and data contained herein regardless of whether it is claimed that the information are inaccurate, incomplete, or otherwise misleading

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) Al-Azem-001
Application Number 13/461,553	Filed 5/01/2012	
For Attachment Systems And Methods Usable To Form Enclosures		
Art Unit 3788	Examiner Raven Collins	

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	<u>Fee</u>	<u>Small Entity Fee</u>	<u>Micro Entity Fee</u>	
☐ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____
☒ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ 300
☐ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____

☒ Applicant asserts small entity status. See 37 CFR 1.27.☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.☐ A check in the amount of the fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☐ The Director has already been authorized to charge fees in this application to a Deposit Account.☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to
Deposit Account Number 132166.☐ Payment made via EFS-Web.**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

I am the

☐ applicant.☒ attorney or agent of record. Registration number 67837.☐ attorney or agent acting under 37 CFR 1.34. Registration number _____./Joshua Shamburger/
Signature10/23/2014
DateJoshua Shamburger
Typed or printed name713-355-4200
Telephone Number**NOTE:** This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.☐ * Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13461553
	Filing Date		2012-05-01
	First Named Inventor	Al-Azem, Samer U.	
	Art Unit	3788	
	Examiner Name	Collins, Raven	
	Attorney Docket Number	Al-Azem-001	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	1	WO2007148075 A1	GB		2007-12-27	Philip Graham Watters		☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		13461553
	Filing Date		2012-05-01
	First Named Inventor	Al-Azem, Samer U.	
	Art Unit	3788	
	Examiner Name	Collins, Raven	
	Attorney Docket Number	Al-Azem-001	

	1		☐
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EXAMINER SIGNATURE

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	13461553
Filing Date	2012-05-01
First Named Inventor	Al-Azem, Samer U.
Art Unit	3788
Examiner Name	Collins, Raven
Attorney Docket Number	Al-Azem-001

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joshua Shamburger/	Date (YYYY-MM-DD)	2014-10-23
Name/Print	Joshua Shamburger	Registration Number	67837

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		13461553		
Filing Date:		01-May-2012		
Title of Invention:		ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES		
First Named Inventor/Applicant Name:		Samer U. Al-Azem		
Filer:		Terry L. McCutcheon/John Watkins		
Attorney Docket Number:				
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with \$0 paid	2252	1	300 IPR2025-01214	300 EX1002

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
Total in USD (\$)				390

Electronic Acknowledgement Receipt

EFS ID:	20503502
Application Number:	13461553
International Application Number:	
Confirmation Number:	1024
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES
First Named Inventor/Applicant Name:	Samer U. Al-Azem
Correspondence Address:	Samer Al-Azem - 2808 Virginia Street - Houston TX 77098 US 7133056162 salazem@yahoo.com
Filer:	Terry L. McCutcheon/John Watkins
Filer Authorized By:	Terry L. McCutcheon
Attorney Docket Number:	
Receipt Date:	23-OCT-2014
Filing Date:	01-MAY-2012
Time Stamp:	18:06:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 390

IPR2025-01214

EX1002

Page 120 of 190

RAM confirmation Number		4473			
Deposit Account		132166			
Authorized User					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	Response.pdf	87534	no	12
			6557f10bcd00bbe71f9a54fae270c70211c8209a		
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	3AC-Fome-Cor-MSDS-July-20-2010.pdf	19506	no	4
			84256d4fd8796de5967bc800b3d76f04d736cf1a		
Warnings:					
Information:					
3	Extension of Time	Extension_of_Time.pdf	163704	no	2
			65898d42a754d53194e015a9af09655782b6152e		
Warnings:					
Information:					
4	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	612193	no	4
			c3aad7f0b307a7f834ac6ddeeb407c3340db3ec		
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	32270	no	2
			8e14475529ff748ea4e642093c0079d6e0b53169		
Warnings:					
Information:					
Total Files Size (in bytes):			915207		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	13/461553
Filing Date	5/1/2012
First Named Inventor	Samer U. Al-Azem
Title	Attached Systems And Methods Usable To Form Enclosures
Art Unit	3782
Examiner Name	Raven Collins
Attorney Docket Number	Al-Azem-001

SIGNATURE of Applicant or Patent Practitioner

Signature	/Joshua M. Shamburger/	Date (Optional)	
Name	Joshua M. Shamburger	Registration Number	67837
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number

Filing Date

13/461553

5/1/2012

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

021897

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR

Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

Name

Title

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IPR2025-01214

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Electronic Acknowledgement Receipt

EFS ID:	20503597
Application Number:	13461553
International Application Number:	
Confirmation Number:	1024
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES
First Named Inventor/Applicant Name:	Samer U. Al-Azem
Correspondence Address:	Samer Al-Azem - 2808 Virginia Street - Houston TX 77098 US 7133056162 salazem@yahoo.com
Filer:	Terry L. McCutcheon/John Watkins
Filer Authorized By:	Terry L. McCutcheon
Attorney Docket Number:	
Receipt Date:	23-OCT-2014
Filing Date:	01-MAY-2012
Time Stamp:	18:11:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA_executed.pdf	2196813 1ffdb5b1da26b6bca08971a9364e7145c138006f	no	2

Warnings:

Information:

Total Files Size (in bytes):	2196813
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/461,553	Filing Date 05/01/2012	☐ To be Mailed
---	---	----------------------------------	---------------------------------------

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	10/23/2014	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 21	Minus	** 20	= 1	x \$40 =	40
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 4	= 0	x \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE							40

(Column 1)

(Column 2)

(Column 3)

AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =
	☐ Application Size Fee (37 CFR 1.16(s))					
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					
TOTAL ADD'L FEE						

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/ANTHONY TYSON/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Page 127 of 190



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/461,553	05/01/2012	Samer U. Al-Azem		1024

7590
Samer Al-Azem
2808 Virginia Street
Houston, TX 77098

EXAMINER

COLLINS, RAVEN

ART UNIT	PAPER NUMBER
----------	--------------

3788

MAIL DATE	DELIVERY MODE
-----------	---------------

06/10/2014

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/461,553	Applicant(s) AL-AZEM, SAMER U.	
	Examiner RAVEN COLLINS	Art Unit 3788	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09/08/2012.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-20 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-20 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 4) ☐ Other: ____.

Art Unit: 3788

1. The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

2. This action is written in response to application no. 13/461,553 filed 05/01/2012

Claim Rejections - 35 USC § 102

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

4. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 2 and 5 are rejected under pre-AIA 35 U.S.C. 102b as being anticipated by Wang (US 7,014,057).

1, 2, 5: Wang discloses a panel for forming an enclosure, the panel comprising:

a first edge 15 having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium 34 thereon; and

a second edge having a first flap 14 and a second flap 14 extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion 33 of the fastening medium thereon adapted for engagement with the first portion of the fastening medium (col. 2, ll. 36-52; col. 4, ll. 1-10 also fig. 12).

Claim Rejections - 35 USC § 103

6. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

7. The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

9. Claim 3 is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Wang (US 7,014,057).

3: Wang discloses the claimed invention as taught by claim 1 above but fails to teach an additional edge. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to include multiple edges for engaging the flaps, since it has been held

Art Unit: 3788

that mere duplication of the essential working parts of a device involves only routine skill in the art. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

10. Claims 6 and 7 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Wang (US 7,014,057).

6, 7: Wang fails to disclose the fastening medium having a certain length. To modify the length of the hook and loop fastening mechanism into the claimed container length would entail a mere change in size of the components and yield only predictable results. "[I]f a technique has been used to improve one device, and a person of ordinary skill in the art would recognize that it would improve similar devices in the same way, using the technique is obvious unless its actual application is beyond that person's skill." *KSR Int'l v. Teleflex Inc.*, 127 S.Ct. 1740, 82 USPQ2d 1396 (2007). A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

11. Claims 4 and 8-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Davis (US 4,257,207) in view of Wang (US 7,014,057).

8, 10, 12, 16, 20: Davis discloses an enclosure comprising:

engaging a first panel 13 having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium 18 thereon; and

a second panel 13 having a female edge 23 with a first flap 25 and a second flap 26 extending therefrom, wherein the first flap and the second flap each have an inner surface adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium (fig. 9, 11, 13, 17 and 18).

Davis fails to disclose the female flaps having an engaging inner surface. Wang discloses a flaps having inner surfaces comprising a hook and loop material (col. 4, ll. 1-10 also fig. 12). In order to equivalence as a rationale supporting an obviousness-type rejection, the equivalency must be recognized in the prior art. *In re Ruff*, 256 F.2d 590, 118 USPQ 340 (CCPA 1958). Wang represents evidence that hook and loop fasteners for connecting flaps were art-recognized equivalent structures for flap insertion fasteners. Therefore, because these two fasteners were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute the insertion fastener for the hook and loop fastener. An express suggestion to substitute one equivalent component or process for another is not necessary to render such substitution obvious. *In re Fout*, 675 F.2d 297, 213 USPQ 532 (CCPA 1982).

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It would have been obvious to one having ordinary skill in the art at the time of the invention was made to include multiple hook and loop fasteners, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

9: Davis discloses the enclosure wherein engagement between the first flap and the front side, engagement between the second flap and the rear side, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof (fig. 18).

4, 11: Davis discloses the panels being constructed partially of a heat resistant material (col. 3, ll. 36-50).

13, 14: Davis discloses the enclosure wherein engagement between the first panel and the second panel defines a first axis, and wherein engagement between the third panel and the fourth panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall (fig. 17).

It is noted that since no criticality has been expressed for having the panels offset from one another, it would have been an obvious matter of design choice. This is recognized as obvious to one having ordinary skill in the art.

15, 18: As best understood by the Examiner, Davis discloses the enclosure further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner edge comprising a second portion of the fastening medium for engagement with at least one additional panel (fig. 18).

17: Davis discloses the enclosure wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof (fig. 18).

19: Davis discloses the enclosure wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, comprise engagement between a first of said flaps and one of the front sides and a second of said flaps and one of the rear sides via engagement between the first portion and the second portion of the fastening medium (fig. 17 and 18).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAVEN COLLINS whose telephone number is (571)270-1672. The examiner can normally be reached on M-F 9:30-6:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Stashick can be reached on 571-272-4561. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RAVEN COLLINS/
Examiner, Art Unit 3788

/Anthony Stashick/
Supervisory Patent Examiner, Art Unit 3788

Notice of References Cited	Application/Control No. 13/461,553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.	
	Examiner RAVEN COLLINS	Art Unit 3788	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-4,257,207	03-1981	Davis, John M.	52/578
*	B	US-7,014,057	03-2006	Wang, Hui-Min	220/7
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	832	220/529	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/23 21:21
L2	8919	panel and flap and (hook and loop) and edge	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/23 21:32
L3	146	2 AND ((A47G9/02 OR A47G9/0246 OR B29C55/023 OR B29C65/7847 OR B29C66/344 OR B29C66/4722 OR B29C66/83411 OR B42D15/045 OR B65B11/004 OR B65B1/04 OR B65D31/16 OR B65D33/00 OR B65D33/065 OR B65D5/00 OR B65D5/20 OR B65D5/4216 OR B65D5/4233 OR B65D5/425 OR B65D5/64 OR B65D5/66 OR B65D65/22 OR B65D73/0078 OR B65D75/008 OR B65D75/5855 OR B65D75/5861 OR B65D85/18 OR B65D85/185 OR B65D85/30 OR F16M13/02).CPC.)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/23 21:42
S1	1	(13/461553).APP.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2014/03/13 11:32
S2	277	220/612	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/13 12:13
S3	2046	428/100	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2014/03/13 13:12
S4	0	("2012/0279972").URPN.	USPAT	OR	ON	2014/03/13 14:50
S5	179	220/531	USPAT	OR	ON	2014/03/13 15:11
S6	256	220/530	USPAT	OR	ON	2014/03/13 18:14
S7	316	493/128	US-	OR	ON	2014/03/19

				PGPUB; USPAT; FPRS; EPO; JPO; DERWENT			14:19
S8	553	("0110991" "0174262" "0470553" "0513726" "0529230" "0598431" "0662619" "0705270" "0732983" "0869833" "0887532" "0919745" "0941013" "1046021" "1075844" "1089939" "1190797" "1211760" "1211853" "1221785" "1311651" "1318007" "1338776" "1369704" "1495046" "1513860" "1523136" "1599110" "1640525" "1696349" "1734049" "1768379" "1833419" "1886879" "1897143" "1933643" "20020053575" "20020100535" "20020162842" "20030006273" "20030062233" "20030159403" "20030164665" "20040118844" "20040188433" "20040262307" "20050061865" "20050079965" "20050115855" "20050167478" "20050194381" "20060054517" "20060118555" "20060151586" "20060169754" "20060231555" "20070000979" "20070007325" "20070051781" "20070131748" "20070164091" "20070199841" "20070284424" "20080023535" "20080083820" "20080116199" "20080290149" "20090126600" "20090212047" "20090277954" "20120234715" "20120234846" "20120234903" "20120234904" "20120238423" "20120238424" "20120238425" "2017129" "2019995" "2078430" "2126996" "2168969" "2203240" "2229299" "2237308" "2349589" "2381874" "2400608" "2415054" "2421748" "2499054" "2501570" "2512382" "2532479" "2559121" "2566500" "2605926" "2607509" "2607972" "2664236" "2674288" "2682964" "2732581" "2748904" "2810506" "2835429" "2837208" "2854165" "2887154" "2911024" "2919826").PN. OR ("2988125" "3034698" "3044656" "3108696" "3108710" "3119547" "3153299" "3153807" "3154052" "3176904" "3187689" "3199762" "3199765" "3225955" "3262597" "3277620" "3301582" "3309970" "3310905" "3323674" "3335775" "3355089" "3375967" "3382998" "3389666" "3469335" "3482760" "3511003" "3515864" "3516592" "3529743" "3545665" "3592145" "3635638" "3651851" "3653576" "3692264" "3734391" "3756393" "3792811" "3836044" "3853220" "3874546" "3875871" "3886901" "3979871"	US- PGPUB; USPAT; USOCR	OR	ON	2014/03/19 17:32	

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	("2011/0210162"	"2011/0210163"					
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EAST Search History (I nterference)

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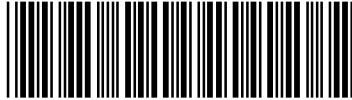
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BIB DATA SHEET

CONFIRMATION NO. 1024

SERIAL NUMBER 13/461,553	FILING or 371(c) DATE 05/01/2012 RULE	CLASS 220	GROUP ART UNIT 3788	ATTORNEY DOCKET NO.		
APPLICANTS INVENTORS Samer U. Al-Azem, Houston, TX; ** CONTINUING DATA ***** This appln claims benefit of 61/481,296 05/02/2011 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ** 05/14/2012						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/RAVEN COLLINS/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY TX	SHEETS DRAWINGS 5	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 4
ADDRESS Samer Al-Azem 2808 Virginia Street Houston, TX 77098 UNITED STATES						
TITLE ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES						
FILING FEE RECEIVED 655	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit			

<i>Index of Claims</i> 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	03/23/2014								
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	3	✓								
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	18	✓								
	19	✓								
	20	✓								

Search Notes 	Application/Control No. 13461553	Applicant(s)/Patent Under Reexamination AL-AZEM, SAMER U.
	Examiner RAVEN COLLINS	Art Unit 3788

CPC- SEARCHED		
Symbol	Date	Examiner
A47G9/0246	03/23/2014	RC
B65D33/00	03/23/2014	RC
B65D33/08	03/23/2014	RC

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
220	612, 531, 530, 529	03/19/2014	RC
428	100	03/19/2014	RC
493	128	03/19/2014	RC

SEARCH NOTES		
Search Notes	Date	Examiner
class search	03/17/2014	RC
consulted R. Hicks	03/12/2014	RC

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/461,553	05/01/2012	Samer U. Al-Azem	

Samer Al-Azem
2808 Virginia Street
Houston, TX 77098

CONFIRMATION NO. 1024 PUBLICATION NOTICE



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Title: ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES

Publication No. US-2012-0279972-A1

Publication Date: 11/08/2012

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
13/461,553	05/01/2012	3782	655		20	4

CONFIRMATION NO. 1024

Samer Al-Azem
2808 Virginia Street
Houston, TX 77098

FILING RECEIPT



Date Mailed: 05/16/2012

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Samer U. Al-Azem, Houston, TX;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/481,296 05/02/2011

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If Required, Foreign Filing License Granted: 05/14/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/461,553**

Projected Publication Date: 11/08/2012

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES

Preliminary Class

229

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/461,553				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	95		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	310		N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	125		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *	x 30 =	0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4	minus 3 = *	x 125 =	125						
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00						
			TOTAL	655		TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										

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**UTILITY PATENT
APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

First Inventor

Samer Al-Azem

Title

Attachment Systems and Methods Usable
to Form Enclosures

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 24]
Both the claims and abstract must start on a new page
(For information on the preferred arrangement, see MPEP 608.01(a))
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
5. Oath or Declaration [Total Sheets 3]
a. ☒ Newly executed (original or copy)
b. ☐ A copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
name in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76
7. ☐ CD-ROM or CD-R in duplicate, large table or
Computer Program (Appendix)
☐ Landscape Table on CD
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, items a. – c. are required)
a. ☐ Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. ☐ CD-ROM or CD-R (2 copies); or
ii. ☐ Paper
c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
Name of Assignee _____
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (PTO/SB/08 or PTO-1449)
☐ Copies of citations attached
13. ☐ Preliminary Amendment
14. ☐ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i).
Applicant must attach form PTO/SB/35 or equivalent.
17. ☐ Other: _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

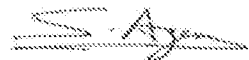
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Prior application information: Examiner _____ Art Unit: _____

19. CORRESPONDENCE ADDRESS☐ The address associated with Customer Number: _____ OR ☒ Correspondence address below

Name	Samer Al-Azem				
Address	2808 Virginia St				
City	Houston	State	TX	Zip Code	77098
Country	USA	Telephone	713-305-6162	Email	salazem@yahoo.com

Signature



Samer Al-Azem

Date

05/01/2012

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IPR2025-01214

EX1002

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Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES			
First Named Inventor/Applicant Name:	Samer Al-Azem			
Filer:	Duke Weider Yee/Mary Bensel			
Attorney Docket Number:				
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	95	95
Utility Search Fee	2111	1	310	310
Utility Examination Fee	2311	1	125	125
Pages:				
Claims:				
Independent claims in excess of 3	2201	1	125	125
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				655

Electronic Acknowledgement Receipt

EFS ID:	12678962
Application Number:	13461553
International Application Number:	
Confirmation Number:	1024
Title of Invention:	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES
First Named Inventor/Applicant Name:	Samer Al-Azem
Correspondence Address:	Samer Al-Azem 2808 Virginia Street - Houston TX 77098 US 713-305-6162 salazem@yahoo.com
Filer:	Duke Weider Yee/Mary Bensel
Filer Authorized By:	Duke Weider Yee
Attorney Docket Number:	
Receipt Date:	01-MAY-2012
Filing Date:	
Time Stamp:	18:18:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$655

IPR2025-01214

EX1002

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RAM confirmation Number	6511				
Deposit Account	503157				
Authorized User					
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees) Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees) Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees) Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		PatentApplication.pdf	100615 3562580d72bd1006397b3e73b1ac63348a b895c4	yes	24
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	19	
	Claims		20	23	
	Abstract		24	24	
Warnings:					
Information:					
2	Drawings-other than black and white line drawings	Drawings.pdf	86742 cf21e5c63e102287a905b5c9924987ad86a 336f1	no	5
Warnings:					
Information:					
3	Application Data Sheet	ADS.pdf	1420914 da6fd7cbc71a7a120c2f764c7b45b7254e08 7e33	no	4
Warnings:					
Information:					
4	Oath or Declaration filed	Oath.pdf	181474 056271aafcc92270fa651862b78709bd6c47 e0b2	no	3
Warnings:					
Information:					
5	Transmittal of New Application	Transmittal.pdf	76461 a6e71e924051f2c98dae608ed7af338dd08c 9836	no	1

Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	36329	no	2
			d55a4d5e375bfd5a82ce6fc62c70d2b7ee1cdd94		
Warnings:					
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Total Files Size (in bytes):				1902535	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES

SPECIFICATION

CROSS-REFERENCE TO RELATED APPLICATION

[0001] The present application claims priority under 35 U.S.C. §119(e) to the co-pending United States provisional application for patent, having the application serial number 61/481,296, filed May 2, 2011, the entirety of which is incorporated herein by reference.

FIELD

[0002] Embodiments usable within the scope of the present disclosure relate, generally, to systems and methods of attachment usable to form enclosures, and more specifically, to enclosures usable to contain pressure, perform hot-work (e.g., welding operations), contain sparks, or isolate ignition sources, or similar functions.

BACKGROUND

[0003] When welding or performing other hot-work operations, especially in an offshore environment, it is typically necessary to perform such operations in an isolated enclosure or, to a lesser extent, contain any ignition sources, such as sparks that result from performing hot-work operations. Such enclosures could either be predominantly sealed to enable a positive pressure to be maintained within, thereby preventing the entry of flammable and/or hazardous gasses, and protecting occupants from inclement weather or other undesirable exterior conditions, or, to a lesser extent, could be partially sealed where the objective is to merely contain hot-work operations and/or protect occupants from inclement weather or other undesirable weather conditions. Vents and/or blowers are often used to transport gasses produced and/or heated by welding or other operations from within the enclosure to the outside, and to flow fresh air into the enclosure, thereby preventing the accumulation of harmful gasses and maintaining a comfortable temperature and working environment within. Normally, such intake vent/s and/or blower/s provide

air into the enclosure at a rate that exceeds that at which air within the enclosure is evacuated and/or lost (e.g., a 2:1 ratio), such that the positive pressure within the enclosure is maintained.

[0004] Conventional enclosures include rigid panels that are time consuming and difficult to transport and assemble on-site. Alternative enclosures can include inflatable structures and/or flexible structures made from lightweight panels. Typically, a flexible enclosure usable for hot-work operations or similar undertakings includes a series of panels having a portion of a zipper on each edge that must be aligned with a corresponding portion of a zipper along the edge of an adjacent panel to attach the panels together. To prevent exposure of a zipper on the interior of the enclosure to the hot-work environment within, a flap can be used to cover the zipper using Velcro™ or a similar hook-and-loop fastening medium, or other means of attachment. While transport and erection of such a flexible enclosure may be more efficient than many conventional alternatives, alignment, mating, and covering of numerous zippers remains a tedious and time consuming undertaking.

[0005] Additionally, flexible enclosures require at least two types of panels to enable mating portions of zippers to be paired and engaged. A lack of interchangeability between panels can often become a hindrance if a panel or zipper is damaged and/or ripped, and a specific type of replacement panel must be located. Additionally, use of zippers is often undesirable due to the propensity of zippers to become caught or damaged when subjected to excessive force or extreme environments. An individual falling into the wall of an enclosure or otherwise forcefully contacting the wall may cause one or more zippers to become damaged or partially unfastened, mitigating the ability of the enclosure to maintain a positive pressure within. When rapid exit from an enclosure is desired for safety reasons, manipulation of a zipper that is covered by a Velcro™ flap or similar fastening medium can be dangerously time consuming and unreliable. Further, if a zipper becomes damaged, the entire engagement between mating panels can be compromised, and on-site repair and/or replacement of a zipper requires tools uncommon to a hot-work environment.

- [0006] As such, a need exists for systems and methods of attachment usable to form enclosures or other structures capable of securely maintaining positive pressure quickly and/or efficiently and safely containing ignition sources created as a result of the performance of hot-work related operations, without requiring tedious installation steps such as the mating and alignment of zippers.
- [0007] A need also exists for systems and methods of attachment usable to form securely sealed enclosures or spark containment devices/systems that are far less likely to become unfastened and/or damaged than conventional alternatives.
- [0008] A further need exists for systems and methods of attachment that can include use of uniform, interchangeable panels that can be mated with one another, avoiding the difficulties associated with production, storage, and installation of multiple types of panels.
- [0009] Embodiments usable within the scope of the present disclosure meet these needs.

SUMMARY

- [00010] Embodiments usable within the scope of the present disclosure include panels, usable to form a variety of enclosures or barriers. A panel can include a first edge having a front side and a rear side, each of the front and rear sides having a first portion of a fastening medium thereon. In a preferred embodiment, the fastening medium can include Velcro™ or a similar hook and loop fastening medium, though it should be understood that other fasteners and/or fastening methods (e.g., reusable or non-reusable adhesive, protrusions, rails, or similar features that mate with corresponding channels and/or orifices, etc.) can be used. A second edge of the panel can have a first flap and a second flap extending therefrom, each of the flaps having an inner surface with a second portion of the fastening medium thereon.
- [00011] For example, both the front and rear sides of the first edge can include a plurality of strips of a hook portion of a hook and loop fastening medium extending across the length thereof, while both the first and second flap of the second edge can include a plurality of strips of a loop portion of a hook and loop fastening medium extending

across the length thereof. Two panels can be connected by placing the first edge of a first panel between the flaps extending from the second edge of a second panel, then moving the flaps to contact the front and rear sides of first edge of the first panel such that the strips of fastening medium along the flaps engage the strips of fastening medium along the first edge. It should be readily understood that the hook portions and loop portions of the fastening medium could be interchanged in any manner or combination without affecting the functionality of the connection. Engagement in this manner can be accomplished rapidly, while providing a seal between connected panels, capable of maintaining a pressure differential across opposing sides of the panels, that withstands significant impact and shear forces without separating.

[00012] Embodied panels can include any number of additional edges, having the same configuration as the edges described above. For clarity, an edge having the configuration of the first edge may be referred to herein as a “male edge” while an edge having the configuration of the second edge may be referred to as a “female edge.” A preferred embodiment includes a square panel, in which the length of the first edge (a male edge) is generally equal to that of the second (a female edge), having an additional male edge opposite the first edge with a substantially identical configuration to the first edge, and an additional female edge opposite the second edge having a substantially identical configuration to the second edge. This configuration provides a panel that can be engaged with up to four identical panels, from any direction, by mating a male edge of the panel with a female edge of an additional panel, or a female edge of the panel with a male edge of an additional panel. As such, any number of interchangeable panels can be engaged in this manner to form a barrier or enclosure having any desired size or shape.

[00013] The panels can include one or more heat resistant materials (e.g., fiberglass, silicone, other polymers), such that formation of an enclosed region using multiple panels can form an enclosure suitable for performing welding and/or other hot-work operations within.

- [00014]** Embodiments usable within the scope of the present disclosure also include enclosures, usable for performing welding and/or other hot-work operations, or for other purposes. It should be understood that while welding operations are often performed within fully enclosed structures (e.g., having four or more walls, a ceiling, and a floor), the term “enclosure” as used herein can also include any partial structure or barrier. For example, a structure having multiple walls that lacks a ceiling could be used to safely perform welding at a construction site, where it is desirable to prevent slag or other materials from falling into streets or other public or traveled areas, but where maintenance of a positive pressure is unnecessary. Similarly, individual walls or other barriers, usable for various purposes, could be constructed using embodiments of the present disclosure.
- [00015]** Embodied enclosures can include a first panel with a male edge having a front side and a rear side, each comprising a first portion of a fastening medium thereon; and a second panel having a female edge with a first and second flap extending therefrom, each flap having an inner surface with a second portion of the fastening medium thereon. The first flap of the second panel can be engaged with the front side first panel, and the second flap can be engaged with the rear side, via engagement between the first and second portions of the fastening medium.
- [00016]** As described above, in an embodiment, the first and second portions of the fastening medium can include corresponding hook and loop portions of Velcro™ or a similar hook and loop fastening medium, and the fastening medium can extend in a plurality of strips across the length of each edge of the panels to facilitate a secure seal therebetween. The panels can include a heat resistant material, thus enabling embodied enclosures to be usable for welding, hot-work, or similar purposes.
- [00017]** Further embodiments usable within the scope of the present disclosure can include an enclosure having one or more walls formed from one or more panels. Each panel can include at least one male edge having a front and a rear side, and at least one female edge having two or more flaps, the front and rear sides and inner surfaces of the flaps having a fastening medium thereon, as described previously.

- [00018]** For example, a wall of the enclosure can be formed by engaging a male edge of the second panel with a female edge of the first panel, engaging a male edge of the third panel with a female edge of the second panel, engaging a male edge of the fourth panel with a female edge of the third panel, and engaging a male edge of the first panel with a female edge of the fourth panel. In this manner, a wall can be provided with a generally square shape; however, it should be understood that panels having non-square shapes can be used to form walls having other shapes, if desired, or alternatively, more than four panels, or fewer than four panels, can be used to form walls and/or enclosures having other shapes and/or configurations.
- [00019]** In an embodiment, engagement between the first and second panels can define a first axis, while engagement between the third and fourth panels can define a second axis. The first and second axis can be offset from one another in a perpendicular direction, such that the engagement of a first portion of the wall (which includes the first and second panels) is disposed in an overlapping relationship relative to that of a second portion of the wall (which includes the third and fourth panels).
- [00020]** Additionally or alternatively, engagement between the second and third panels can define a first axis, while engagement between the first and fourth panels can define a second axis, offset a distance from the first axis in a perpendicular direction, forming an overlapping relationship between portions of the wall. Thus, in an exemplary embodiment, engagement between two horizontally adjacent panels can be horizontally offset from the opposing engagement between two other horizontally adjacent panels, while the opposing vertical engagements between adjacent panels can be similarly offset from one another. This overlapping, offset relationship between engagements can provide improved shear strength and impact resistance.
- [00021]** One or more of the panels within the wall can include additional male and/or female edges, used to engage additional panels for forming an enclosure. Adjacent panels can be angled (e.g., pivoted, folded, and/or bent) relative to one another at the point of engagement, enabling walls to be placed in a perpendicular or other angular relationship relative to one another. Engagement between panels can form seals

capable of substantially maintaining a pressure differential on opposing sides thereof and/or forming an enclosed space adapted for performing welding or other hot-work operations.

[00022] Embodiments usable within the scope of the present disclosure thereby provide systems and methods of attachment usable to securely maintain positive pressure and/or otherwise provide a seal and/or connection between adjacent members having significant resistance to impact and/or shear forces, that can be quickly and efficiently installed, and that can further incorporate use of interchangeable members. It should be understood that the type of fasteners that can be used in conjunction with this invention are not limited to hook and loop type fasteners, but can also include “Palm Tree” hooks, “J” hoops, and “Mushroom” hooks, all of which are known to one of reasonable skill in the art.

[00023] It is commonly known that the shear strength of hook and loop type of fasteners such as Velcro™ (the force applied to parallel pieces pulled in opposite directions) is 10 to 15 pounds per square inch. This means that the more area of Velcro one has, the more shear strength exists. Therefore, by way of example, if the panel was of a square configuration, where each side is approximately 40 inches long (approximately 1 meter), if the width and length of said fasteners are 2 inches by 40 inches respectively, and four strips are employed at each edge of a panel (2 on each of the 2 sides of an edge of a panel) whereas the shear strength of one such strip should be between 10 to 15 pounds per square inch, an unexpected result of this invention was that when one attempts to separate 4 such 80 square inch strips, the shear strength required was substantially more than 15 pounds per square inch since someone attempting to shear one strip of a hook type of fastener from its corresponding loop type of fastener was consistently challenged to make sure that the corresponding hook and loop fastening surfaces on one strip did not come back into contact while one was attempting to shear off the second strip on the same side due the proximity of the hook and loop fastening mechanisms to each other. In almost every non-mechanized attempt to separate one edge panel from the other, once the two edges had been secured as set forth above, resulted in additional force

being required to either prevent two unfastened strips from coming back into contact with each other once unfastened, or trying to simultaneously shear apart two such strips. Yet another unexpected result was the benefit of the relatively loud “cautionary” tearing or ripping sound created when two fastening strips start coming apart, either intentionally or unintentionally. In cases where zippers were used to fasten two panels together, if the zipper teeth holding the panels together came apart (either intentionally or unintentionally), such unfastening barely created any noise at all, thereby rendering almost silent any intentional or unintentional separation of the teeth on any given zipper. As such, the characteristic tearing or ripping sound created when two sides of a hook and loop type of fastener came apart added an auditory element to any unfastening process which made the opening action noticeable and positively contributed to the safety aspect of this invention. Finally, yet another unintended result was that the fastening mechanism utilized by this invention provided the dual advantage of not needing impeccable accuracy in fastening two sides together (as with the perfect alignment needed for a smooth closing action when zippers are employed) and yet needing a considerable amount of force to peel the same two sides from each other (as opposed to the minimal amount of force needed for their opening action).

BRIEF DESCRIPTION OF THE DRAWINGS

- [00024]** In the detailed description of various embodiments usable within the scope of the present disclosure, presented below, reference is made to the accompanying drawings, in which:
- [00025]** Figure 1A depicts a diagrammatic front view of an embodiment of a panel usable within the scope of the present disclosure.
- [00026]** Figure 1B depicts a diagrammatic rear view of the panel of Figure 1A.
- [00027]** Figure 1C depicts a diagrammatic right side view of the panel of Figure 1A.
- [00028]** Figure 1D depicts a diagrammatic left side view of the panel of Figure 1A.

- [00029] Figure 2A depicts an exploded diagrammatic front view of an engagement between two panels usable within the scope of the present disclosure.
- [00030] Figure 2B depicts a diagrammatic front view of the engagement of Figure 2A.
- [00031] Figure 2C depicts a diagrammatic rear view of the engagement of Figure 2B.
- [00032] Figure 3 depicts a diagrammatic front view of an engagement between four panels usable within the scope of the present disclosure.
- [00033] Figure 4A depicts an isometric side view of an embodiment of an enclosure usable within the scope of the present disclosure.
- [00034] Figure 4B depicts an isometric view of an opposing side of the enclosure of Figure 4A.
- [00035] Figure 4C depicts a diagrammatic front view of an escape panel of the enclosure of Figure 4A.
- [00036] Figure 4D depicts a diagrammatic rear view of the escape panel of Figure 4C.
- [00037] Figure 4E depicts a diagrammatic end view of a blower engagement of the enclosure of Figure 4A.
- [00038] One or more embodiments are described below with reference to the listed Figures.

DETAILED DESCRIPTION OF THE EMBODIMENTS

[00039] Before describing selected embodiments of the present disclosure in detail, it is to be understood that the present invention is not limited to the particular embodiments described herein. The disclosure and description herein is illustrative and explanatory of one or more presently preferred embodiments and variations thereof, and it will be appreciated by those skilled in the art that various changes in the design, organization, means of operation, structures and location, methodology, and use of mechanical equivalents may be made without departing from the spirit of the invention.

[00040] As well, it should be understood that the drawings are intended to illustrate and plainly disclose presently preferred embodiments to one of skill in the art, but are not intended to be manufacturing level drawings or renditions of final products and may include simplified conceptual views to facilitate understanding or explanation. As well, the relative size and arrangement of the components may differ from that shown and still operate within the spirit of the invention.

[00041] Moreover, it will be understood that various directions such as “upper”, “lower”, “bottom”, “top”, “left”, “right”, and so forth are made only with respect to explanation in conjunction with the drawings, and that components may be oriented differently, for instance, during transportation and manufacturing as well as operation. Because many varying and different embodiments may be made within the scope of the concept(s) herein taught, and because many modifications may be made in the embodiments described herein, it is to be understood that the details herein are to be interpreted as illustrative and non-limiting.

[00042] Embodiments usable within the scope of the present disclosure relate to systems and methods of attachment usable to form enclosures suitable for welding, hot-work operations, and/or other purposes using one or more panels that can be engaged to form barriers and/or enclosures. Figures 1A through 1D depict an embodiment of a panel (10), in which Figure 1A depicts a diagrammatic front view thereof, Figure 1B depicts a diagrammatic rear view, Figure 1C depicts a diagrammatic right side view,

and Figure 1D depicts a diagrammatic left side view.

[00043] The panel (10) is shown having a generally thin, square-shaped body, with a front side (12) and a rear side (14). While the panel (10) can be formed from any generally durable material able to maintain its shape, in an embodiment, the panel can be formed from flexible, lightweight, and/or heat resistant materials, such as coated fiberglass, silicone, and/or various other polymers, composites, or other similar materials. Additionally, while the panel (10) is depicted having square shape, it should be understood that panels having other shapes and/or dimensions can be used without departing from the scope of the present disclosure. Further, while the terms “front side” and “rear side” are used to refer to opposing faces of the panel (10), it should be understood that these terms are for reference only, and embodiments of the present disclosure can include panels that are reversible without affecting the function thereof. For example, an embodied panel could include a front side having a first color or characteristic and a rear side having a second color or characteristic, and the panel could be oriented such that a side having a desired characteristic faces the exterior of an enclosure (e.g., for selectively retaining or reflecting heat from the sun).

[00044] The depicted panel (10) is shown having a first male edge (16), a second male edge (20) opposite the first male edge (16), a first female edge (24), and a second female edge (34) opposite the first female edge (24).

[00045] The first male edge (16) is shown having four portions of a fastening medium (18A, 18B, 18C, 18D) positioned thereon. In a preferred embodiment, the depicted fastening medium (18A, 18B, 18C, 18D) can include strips of Velcro™ or a similar hook and loop fastening medium, though it should be understood that other fastening media and/or means of connection can also be used without departing from the scope of the present disclosure. While these portions of fastening medium (18A, 18B, 18C, 18D) may hereafter be referred to as “hook strips,” while corresponding, mating portions of the fastening media may be referred to as “loop strips,” it should be readily apparent that the placement of hook and loop portions can be interchanged

without affecting the function of the depicted embodiments, and that while strips of fastening media extending across the length of the panel (10) are shown, any number and configuration of mating portions of a fastening medium can be used.

[00046] Specifically, the first male edge (16) is depicted having two hook strips (18A, 18B) extending along the length thereof, positioned on the front side (12) of the panel (10), and two hook strips (18C, 18D) extending along the length thereof, positioned on the rear side (14) of the panel (10). The second male edge (20) is shown having a similar configuration of fastening media (22A, 22B, 22C, 22D), hereafter referred to as “hook strips,” in which two hook strips (22A, 22B) extend along the length of the second male edge (20) and are positioned on the front side (12) of the panel (10), while two additional hook strips (22C, 22D) extend along the length of the second male edge (20) and are positioned on the rear side (14) of the panel (10).

[00047] The first female edge (24) is shown having two flaps (26, 30) extending therefrom, in a direction outward from the body of the panel (10). The flaps (26, 30) can be moved and/or pivoted relative to the body of the panel (10), e.g., as illustrated by the orientation of the flaps (26, 30) shown in Figures 1A and 1B, and the differing orientation shown in Figures 1C and 1D. The first flap (26) is shown having two portions of a fastening medium (28A, 28B), hereafter referred to as “loop strips,” extending across the length of the inner surface thereof. The second flap (30) is similarly shown having two portions of the fastening medium (28C, 28D), hereafter referred to as “loop strips,” extending across the length of the inner surface thereof. The second female edge (34) is shown having a similar configuration, in which two flaps (36, 40) extend therefrom. The first flap (36) is shown having two portions of a fastening medium (38A, 38B), hereafter referred to as “loop straps,” extending across the length of the inner surface thereof. The second flap (40) is also shown having two portions of the fastening medium (42A, 42B), hereafter referred to as “loop straps,” extending across the length of the inner surface thereof.

[00048] The depicted panel (10) can be engaged with a generally similar and/or identical panel by placing either male edge (16, 20) of the panel (10) adjacent to a female edge

of an additional panel, then closing the flaps of the female edge over the male edge (16, 20), such that a first flap contacts the front side (12), causing loop straps on the flap to engage hook straps (18A, 18B, 22A, 22B) on the front side (12), and a second flap contacts the rear side (14), causing loop straps on the flap to engage hook straps (18C, 18D, 22C, 22D) on the rear side (14).

[00049] The depicted panel (10) can also be engaged with a generally similar and/or identical panel by placing either female edge (24, 34) adjacent to a male edge of an additional panel, then closing the flaps (26, 30, 36, 40) over the male edge, such that a first flap contacts a front side of the male edge and a second flap contacts a rear side of the male edge, causing engagement between the loop straps (28A, 28B, 38A, 38B) of one of the flaps (26, 36) and one side of the male edge, and engagement between the loop straps (32A, 32B, 42A, 42B) of the opposing flap (30, 40) and the opposing side of the male edge.

[00050] Figures 2A through 2C depict an engagement between two panels (10, 44) usable within the scope of the present disclosure. Specifically, Figure 2A depicts an exploded diagrammatic front view of engagement between the panels (10, 44), with dashed lines extending therebetween to indicate a connection. Figure 2B depicts a diagrammatic front view of the engagement, while Figure 2C depicts a diagrammatic rear view thereof.

[00051] The first panel (10) is substantially identical to that shown in Figures 1A through 1D, and as such, identical and/or similar corresponding parts have been provided with the same reference numerals. The second panel (44), shown adjacent to and engaged with the first panel (10), is depicted as identical or substantially similar to the first panel (10), rotated ninety degrees such that a female edge of the second panel (44) is positioned to engage the first male edge (16) of the first panel (10). Use of identical panels enables interchangeable assembly and/or replacement of the panels, facilitating rapid installation and/or repair of enclosures.

[00052] Specifically, the second panel (44) is shown having a front side (46) and a rear side (48), a first male edge (50), a second male edge (54), a first female edge (58), and a

second female edge (68).

[00053] The first male edge (50) includes two portions of a fastening medium (52A, 52B), hereafter referred to as “hook strips,” extending across the length of the front side (46), and two portions of the fastening medium (52C, 52D), hereafter referred to as “hook strips,” extending across the length of the rear side (48). The second male edge (54) also includes two portions of the fastening medium (56A, 56B), hereafter referred to as “hook strips,” extending across the length of the front side (46), and two portions of the fastening medium (56C, 56D), hereafter referred to as “hook strips,” extending across the length of the rear side (48).

[00054] The first female edge (58) is shown having two flaps (60, 64) extending therefrom, the first flap (60) having two portions of the fastening medium (62A, 62B), hereafter referred to as “loop strips,” extending across the length thereof, and the second flap (64) having two portions of the fastening medium (66A, 66B), hereafter referred to as “loop strips,” extending across the length thereof. Similarly, the second female edge (68) is shown having two flaps (70, 74) extending therefrom, the first flap (70) having two portions of the fastening medium (72A, 72B), hereafter referred to as “loop strips,” extending across the length thereof, and the second flap (74) having two portions of the fastening medium (76A, 76B), hereafter referred to as “loop strips,” extending across the length thereof.

[00055] To engage the first panel (10) with the second panel (44), the first male edge (16) of the first panel (10) can be placed proximate and/or adjacent to the first female edge (58) of the second panel (44), such that the first male edge (16) is positioned between the flaps (60, 64) extending from the first female edge (58). The flaps (60, 64) extending from the first female edge (58) can then be moved (e.g., closed and/or pivoted) to contact the first male edge (16), thereby engaging hook strap (18A) with loop strap (66B), hook strap (18B) with loop strap 66A, hook strap (18C, shown in Figure 1B) with loop strap 66B, and hook strap (18D, shown in Figure 1B) with loop strap (66A).

[00056] The depicted engagement between the panels (10, 44) mates four hook strips (18A,

18B, 18C, 18D) of a hook and loop fastening medium with four loop strips (62A, 62B, 66A, 66B) of the hook and loop fastening medium, each of the strips extending across substantially the entire length of the panels (10, 44). The depicted engagement can form a seal capable of maintaining a pressure differential on opposing sides of the panels (10, 44) (e.g., for forming a positive pressure environment within an enclosure). Additionally, the depicted engagement exhibits significantly improved impact resistance and shear strength over seals within conventional flexible enclosures (e.g., formed using zippers or other conventional fasteners).

[00057] While Figures 2A through 2C depict a single engagement between two panels (10, 44), it should be noted that other additional panels having male and/or female edges, as described above, can be engaged with the depicted panels (10, 44) in a similar manner, to form a barrier and/or enclosure of any desired size or shape. Additionally, while Figures 2A through 2C show a female edge (58) of the second panel (44) engaging a male edge (16) of the first panel (10), it should be understood that any orientation and engagement between any male edge and any female edge of two adjacent panels can be used. The panels (10, 44) can be moved and/or pivoted relative to one another at the point of engagement along the first female edge (58). Thus, for example, five or more panels having the depicted configuration, and/or five or more generally flat barriers (e.g., walls) formed from multiple panels, could be engaged in the manner described above and placed in a perpendicular relationship relative to one another to define an enclosure having the shape of a cube or rectangular prism. During operations where a full enclosure is not necessary, panels and/or groups of panels could be engaged to form an enclosed space, lacking a cover or roof and/or a bottom or floor.

[00058] Referring now to Figure 3, a diagrammatic front view of an engagement between four panels (10, 44, 78, 80) is shown, e.g., forming a generally continuous wall usable as part of an enclosure. Each of the depicted panels (10, 44, 78, 80) includes a configuration similar or identical to that of the panels depicted in Figures 1A through 2C, thus for clarity, only the operative edges of each panel (10, 44, 78, 80)

and engagements therebetween are labeled with reference numerals.

[00059] Specifically, the first panel (10) is shown is shown engaged with the second panel (44) at engagement (82), which can be formed through connection between hook and loop fastening media disposed on a male edge of the first panel (10) and a female edge of the second panel (44) in the manner described previously. Similarly, the second panel (44) is shown engaged with the third panel (78) at engagement (84), which can be formed through connection between hook and loop fastening media disposed on a male edge of the second panel (44) and a female edge of the third panel (78). The third panel (78) is shown engaged with the fourth panel (80) at engagement (86), which can be formed through connection between hook and loop fastening media disposed on a male edge of the third panel (78) and a female edge of the fourth panel (80). The fourth panel (80) is shown engaged with the first panel (10) at engagement (88), which can be formed through connection between hook and loop fastening media disposed on a male edge of the fourth panel (80) and a female edge of the first panel (10).

[00060] Engagement between the first and fourth panels (10, 80) and between the third and second panels (78, 44) thereby defines a first axis (91), while engagement between the first and second panels (10, 44) and between the third and fourth panels (78, 80) defines a second axis (93). Due to the arrangement of male and female edges on the panels (10, 44, 78, 80), each of the engagements (82, 84, 86, 88) are offset from the adjacent axes (91, 93), providing the depicted array of panels with an overlapping engagement. For example, the first and third engagements (82, 86) are offset from one another by a distance (92), while the second and fourth engagements (84, 88) are offset from one another by a distance (90). This overlapping arrangement provides the depicted engagements between panels with added strength. For example, impacts, wind, and/or other forces applied to the panels (10, 44, 78, 80) are significantly less likely to separate offset engagements than two engagements in linear alignment with one another.

[00061] As described previously, the depicted arrangement of panels (10, 44, 78, 80) can be

engaged with additional panels to form walls or barriers of any size, or to form sealed enclosures suitable for performing welding and/or similar operations. For example, the panels (10, 44, 78, 80) are shown including additional male edges (94) usable for engagement with female edges of additional panels in the manner described previously, and additional female edges (96) usable for engagement with male edges of additional panels in the manner described previously.

[00062] Figures 4A through 4E depict an embodiment of an enclosure (98), e.g., a structure formed from a plurality of walls such as that shown in Figure 3, and parts thereof, usable to perform various undertakings within, such as hot-work operations. Specifically, Figure 4A depicts an isometric side view of the enclosure (98), Figure 4B depicts an opposing isometric side view thereof, Figures 4C and 4D depict front and rear views of an escape panel (110) of the enclosure (98), respectively, and Figure 4E depicts a diagrammatic end view of a blower engagement (120) of the enclosure (98).

[00063] The enclosure (98) is shown having a generally cubical shape, in which a ceiling (100), four walls (102, 104, 106, 108), and optionally, a base (not shown), each having a configuration identical or similar to that of the wall shown in Figure 3, can be engaged in the manner described previously. As described above, engagement between overlapping male and female edges using strips of hook and loop fastening media can provide a generally airtight seal to form an enclosure capable of maintaining a positive pressure within.

[00064] A first wall (102) is shown having a door (116) installed therein, the panel of the first wall (102) that includes the door having a height selected to accommodate the door (116). The depicted panel therefore includes both a male and a female engagement on a single edge thereof, for engaging two adjacent panels.

[00065] A second wall (104) is shown having an escape panel (110) installed therein, the escape panel (110) including a slit (112) through which an individual can quickly exit the enclosure (98) should internal or external conditions become hazardous. Conventional exit panels include a slit or similar opening that is secured in a closed

position using a zipper. Due to the hazards inherent when a zipper faces the inside of an enclosure used for performing hot work and similar dangerous undertakings, these zippered openings are normally covered by a flap of material, which can be secured using Velcro™ or a similar medium. When escape from the enclosure is necessary, both the cover flap and the zipper must be manipulated quickly, and rapid manipulation of a zipper can cause the zipper to become damaged or caught.

[00066] The depicted escape panel (110), however, as shown in Figures 4C and 4D, does not include a zipper or similar fastener and simply maintains an open slit (112), which is coverable by a flap (150). The slit (112) is shown having two strips of a hook and loop fastening medium (122, 124) on either side thereof, extending along the length of the slit (112). The flap (150) is similarly shown having two strips of a hook and hoop fastening medium (150, 152) attached on an interior side thereof, such that when the flap (150) is folded, pivoted, and/or otherwise moved to cover the slit (112), fastening medium (122) is engaged by fastening medium (150), while fastening medium (124) is engaged by fastening medium (152). The depicted arrangement, using four strips of fastening medium (122, 124, 152, 154) extending along the length of the slit (112), provides a secure engagement able to maintain a positive pressure within the enclosure (98), that is extremely unlikely to become damaged or disengaged due to impact or other internal or external forces common to a hot work environment. Additionally, the depicted arrangement provides a slit (112) that is more easily uncovered and accessed than a conventional zippered panel.

[00067] The depicted escape panel (110) is also shown having a male engagement (126) and a female engagement (132) on an edge thereof, usable to engage two adjacent panels in the manner described previously. Other edges of the escape panel (110) can similarly include male and female engagements (not shown) for engaging the escape panel (110) with other portions of the enclosure (98), as depicted in Figure 4A.

[00068] The third wall (106) of the enclosure (98) is shown having a blower engagement (120), usable, in various embodiments, to engage a conduit of a blower, vent, pump, or similar apparatus configured for flowing one or more gasses into or from the

enclosure (98). The blower engagement (120) is shown having male and female portions, the male portion including four strips of hook and loop fastening medium (168, 170, 172, 174) on opposing sides thereof, and the female portion including two flaps (156, 162), each flap (156, 162) having two strips of hook and loop fastening medium (158, 160, 162, 164) thereon. When closed (e.g., engaged about a conduit of a blower), fastening medium (158) engages fastening medium (170), fastening medium (160) engages fastening medium (168), fastening medium (164) engages fastening medium (174), and fastening medium (166) engages fastening medium (172). Use of the depicted arrangement provides for an adjustable, generally gas-tight conduit of the enclosure (98) usable to engage a blower, vent, or similar apparatus.

[00069] Embodiments described herein thereby provide systems and methods of attachment usable to form enclosures capable of securely maintaining positive pressure quickly and efficiently, without requiring mating and alignment of zippers or similar two-part fastening systems, the embodied enclosures being significantly more secure and far less likely to become unfastened and/or damaged than conventional alternatives. Embodiments described herein can also include interchangeable panels, and in various embodiments, panels having special features, such as doors, escape panels, and/or blower engagements can be used.

[00070] While various embodiments usable within the scope of the present disclosure have been described with emphasis, it should be understood that within the scope of the appended claims, the present invention can be practiced other than as specifically described herein.

CLAIMS

What is claimed is:

1. A panel for forming an enclosure, the panel comprising:

a first edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium.
2. The panel of claim 1, further comprising at least one additional edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon.
3. The panel of claim 1, further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium.
4. The panel of claim 1, wherein the panel is formed at least partially from a heat resistant material.
5. The panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.
6. The panel of claim 1, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, extend substantially along an entire length of the first edge, the second edge, or combinations thereof.
7. The panel of claim 1, wherein the first edge comprises a length generally equal to a length of the second edge.

8. An enclosure comprising:

a first panel having a male edge with a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon; and

a second panel having a female edge with a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium, wherein the first flap engages the front side and the second flap engages the rear side via engagement between the first portion and the second portion of the fastening medium.

9. The enclosure of claim 8, wherein engagement between the first flap and the front side, engagement between the second flap and the rear side, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.

10. The enclosure of claim 8, wherein the first portion of the fastening medium, the second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.

11. The enclosure of claim 8, wherein the first panel, the second panel, or combinations thereof, is formed at least partially from a heat resistant material.

12. An enclosure comprising:

a wall comprising a first panel, a second panel, a third panel, and a fourth panel,

wherein the first panel comprises a first male edge having a front side and a rear side and a first female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel comprises a second male edge having a front side and a rear side and a second female edge having at least two flaps extending therefrom, wherein the

front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the third panel comprises a third male edge having a front side and a rear side and a third female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the fourth panel comprises a fourth male edge having a front side and a rear side and a fourth female edge having at least two flaps extending therefrom, wherein the front side and the rear side each comprise a first portion of the fastening medium thereon, and wherein said at least two flaps each have an inner surface comprising a second portion of the fastening medium thereon,

wherein the second panel is engaged with the first panel via engagement between the first female edge and the second male edge, wherein the third panel is engaged with the second panel via engagement between the second female edge and the third male edge, wherein the fourth panel is engaged with the third panel via engagement between the third female edge and the fourth male edge, and wherein the first panel is engaged with the fourth panel via engagement between the fourth female edge and the first male edge.

13. The enclosure of claim 12, wherein engagement between the first panel and the second panel defines a first axis, and wherein engagement between the third panel and the fourth panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping engagement between a first portion of the wall and a second portion of the wall.
14. The enclosure of claim 12, wherein engagement between the second panel and the third panel defines a first axis, and wherein engagement between the fourth panel and the first panel defines a second axis, and wherein the first axis is offset a distance from the second axis in a direction generally perpendicular to the first axis and the second axis to form an overlapping

engagement between a first portion of the wall and a second portion of the wall.

15. The enclosure of claim 12, further comprising at least one additional edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner edge comprising a second portion of the fastening medium for engagement with at least one additional panel.
16. The enclosure of claim 12, wherein each first portion of the fastening medium, each second portion of the fastening medium, or combinations thereof, comprise a plurality of strips of a hook and loop fastening medium.
17. The enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, forms a seal adapted to maintain a pressure differential across opposing sides thereof.
18. The enclosure of claim 12, further comprising at least one additional wall engaged with the wall to form an enclosed space adapted for performing hot work, for containing a pressure differential therein, or combinations thereof.
19. The enclosure of claim 12, wherein engagement between the first panel and the second panel, engagement between the second panel and the third panel, engagement between the third panel and the fourth panel, engagement between the fourth panel and the first panel, or combinations thereof, comprise engagement between a first of said flaps and one of the front sides and a second of said flaps and one of the rear sides via engagement between the first portion and the second portion of the fastening medium.
20. A method of attachment comprising engaging a first edge having a front side and a rear side, wherein the front side and the rear side each comprise a first portion of a fastening medium thereon and a second edge having a first flap and a second flap extending therefrom, wherein the first flap and the second flap each have an inner surface comprising a second portion of the fastening medium thereon adapted for engagement with the first portion of the fastening medium.

ABSTRACT

Enclosures and panels for forming such enclosures can include a first edge having a front side and a rear side, each side having a first portion of a fastening medium thereon, and a second edge having first and second flaps, each flap having an inner surface with a second portion of the fastening medium thereon. The flaps of a first panel can be engaged with the front and rear sides of an adjacent panel, and similarly, any number of adjacent panels can be engaged in this manner to form a sealed enclosure, usable for maintaining a pressure differential between the interior and exterior thereof.

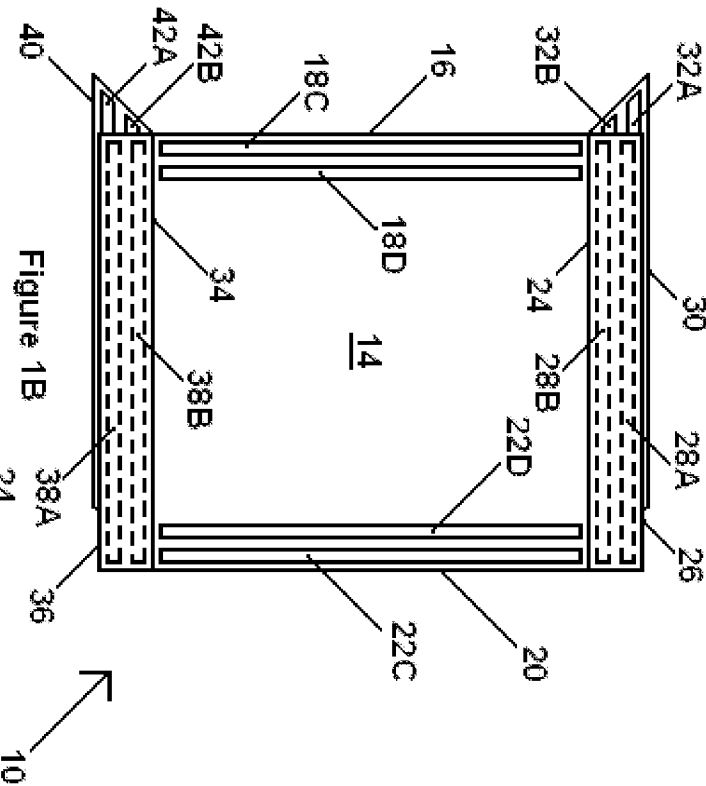
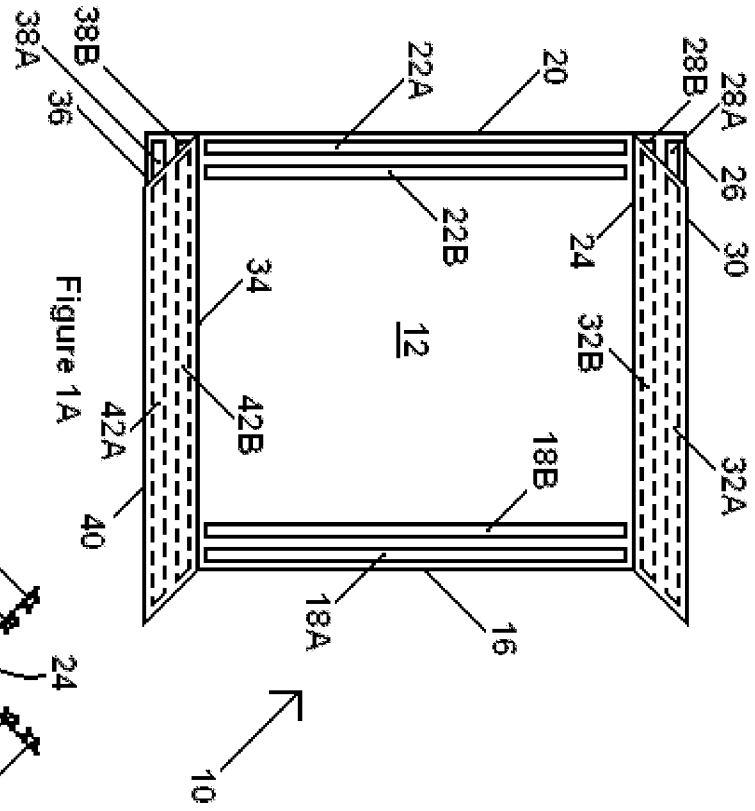


Figure 1C

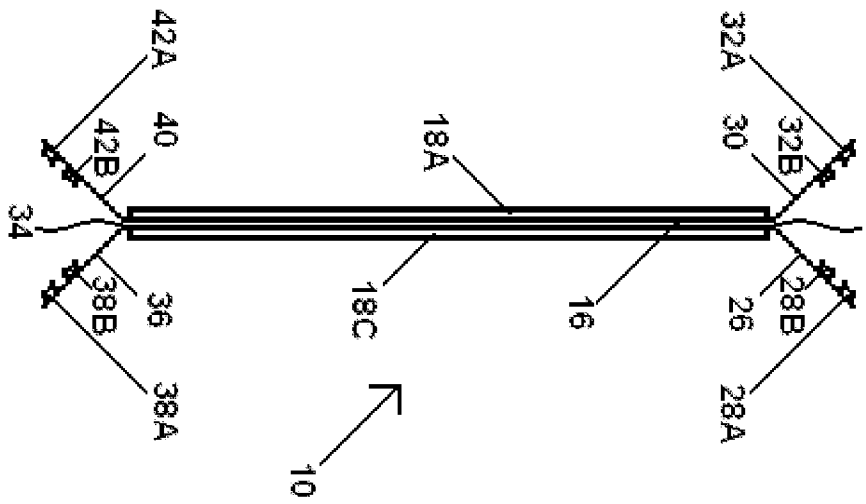
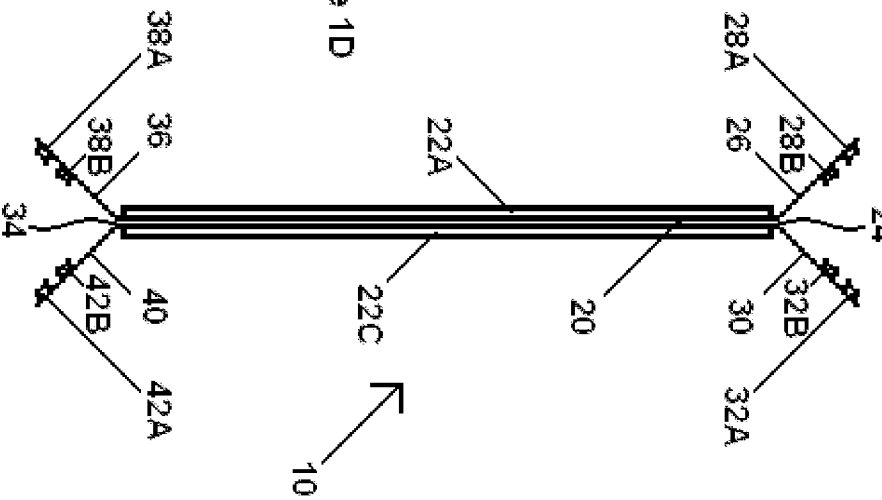


Figure 1D



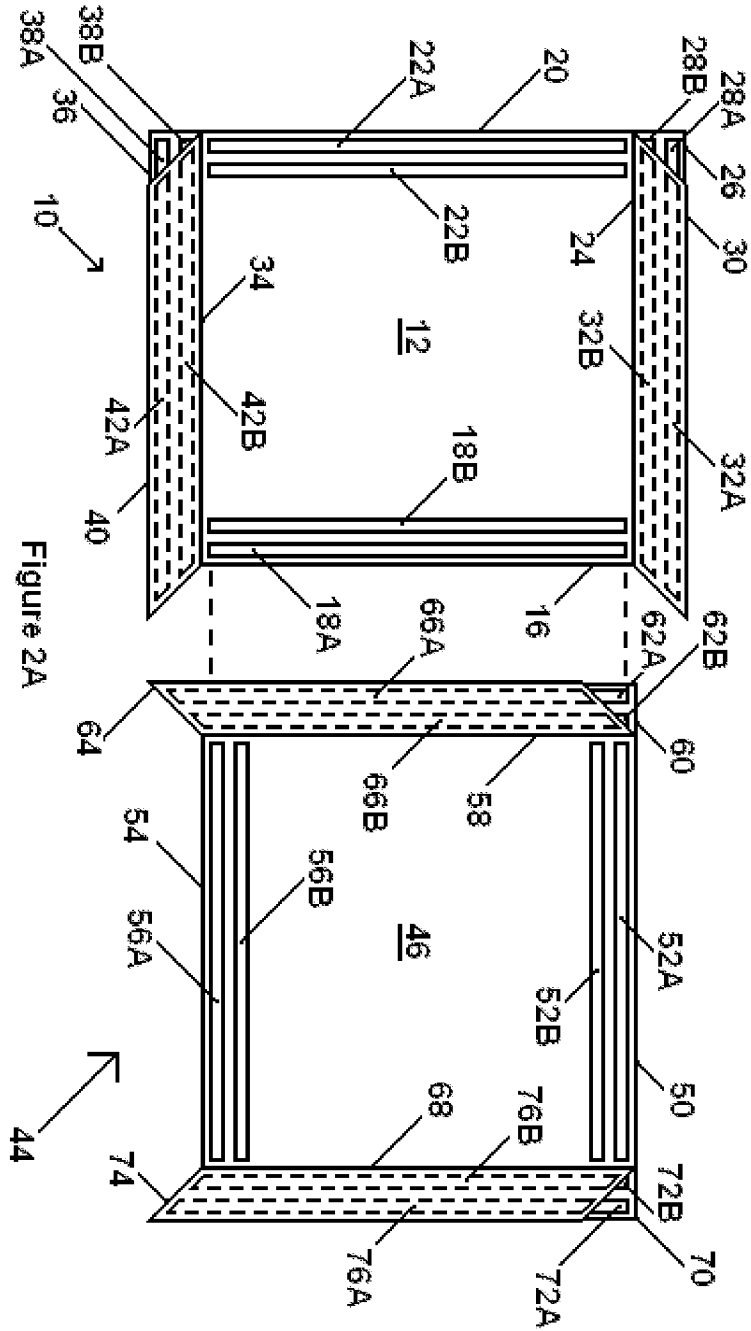


Figure 2A

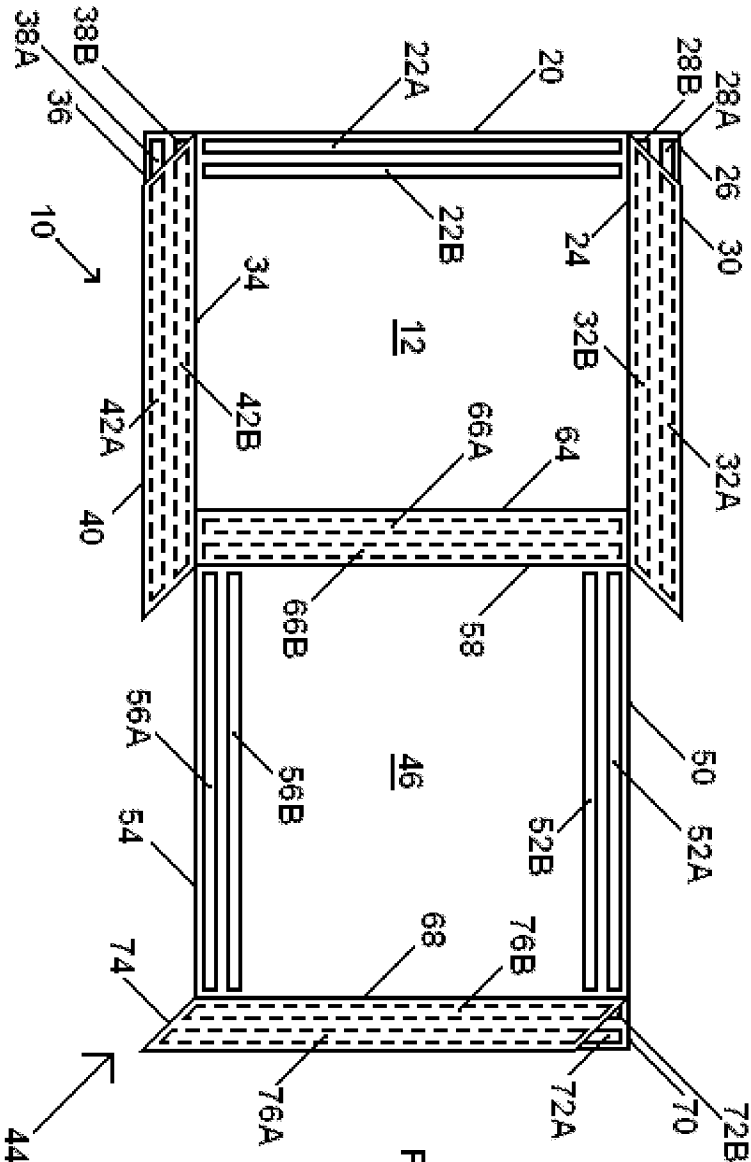
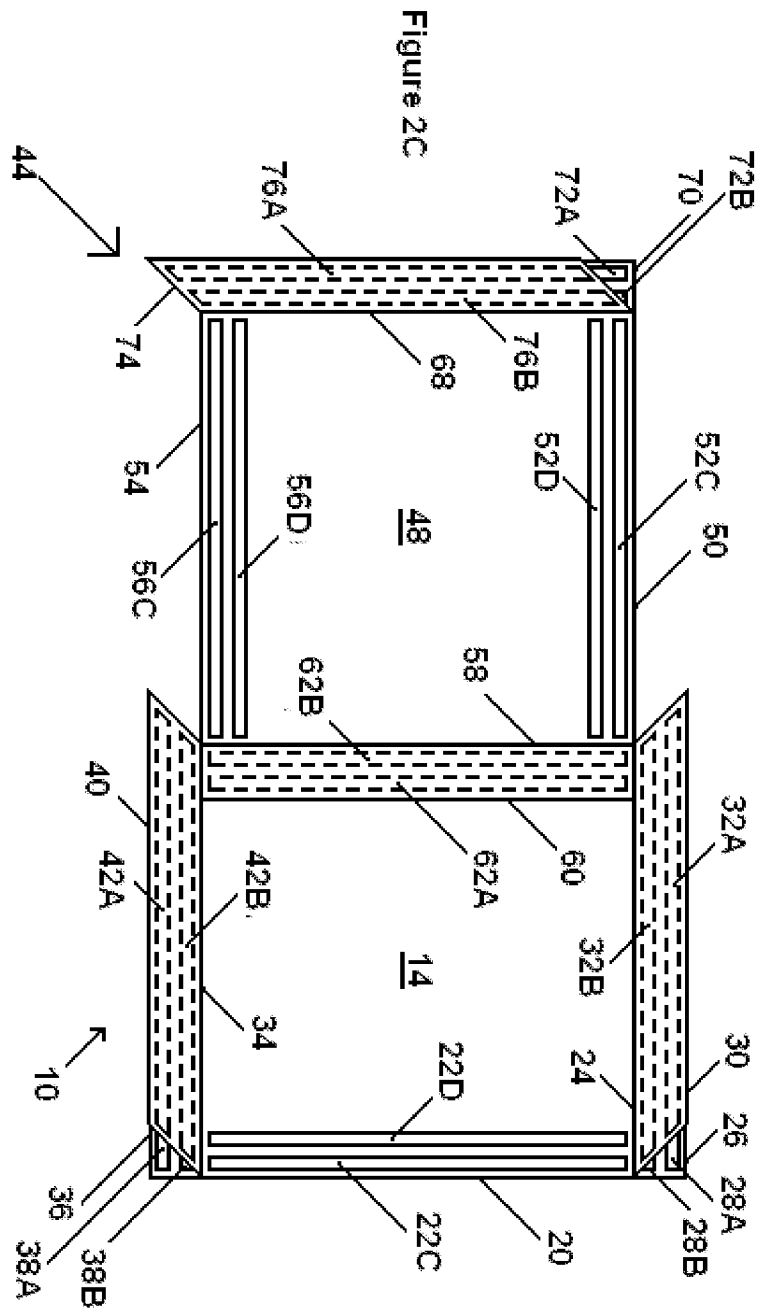


Figure 2B



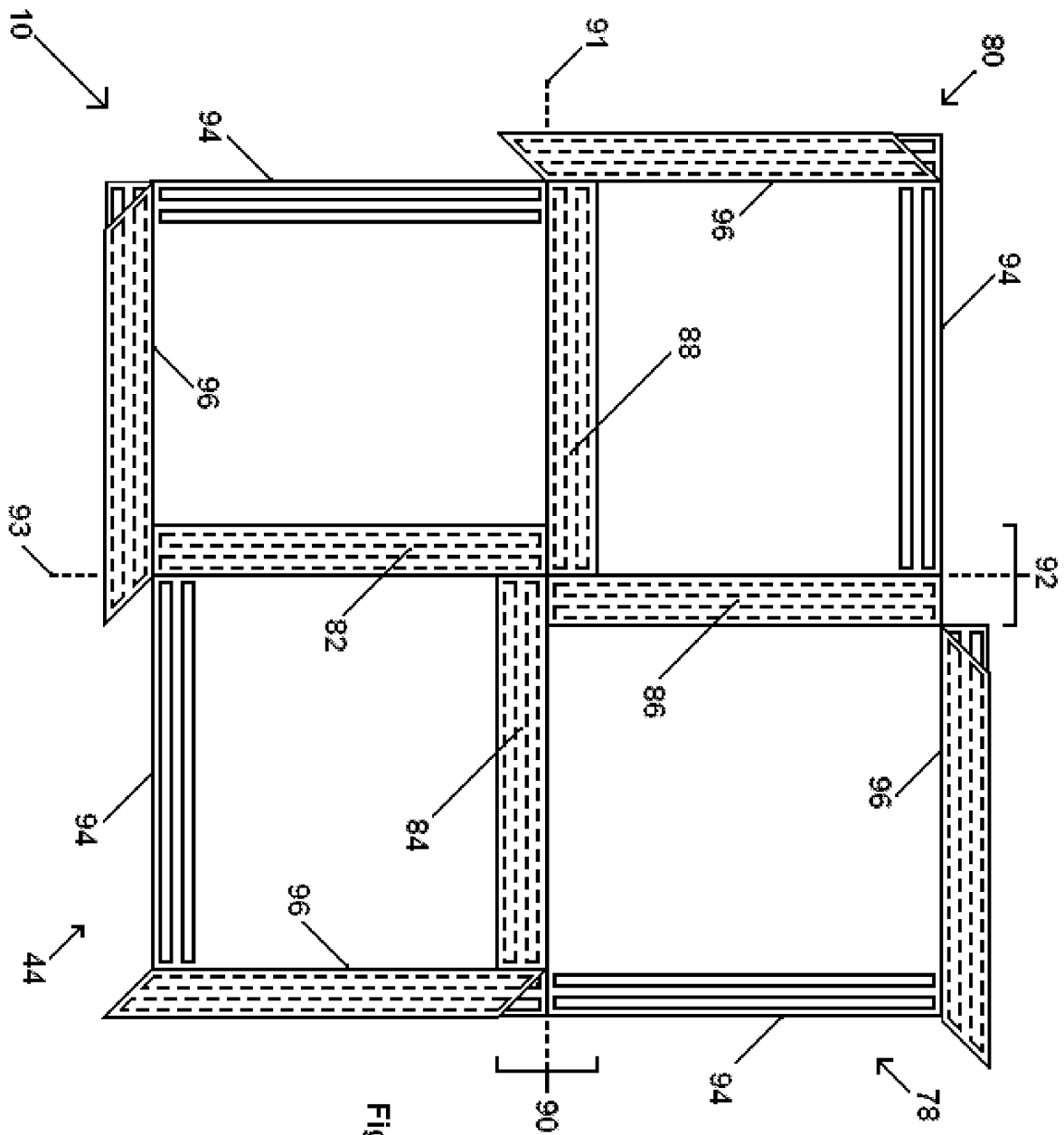


Figure 3

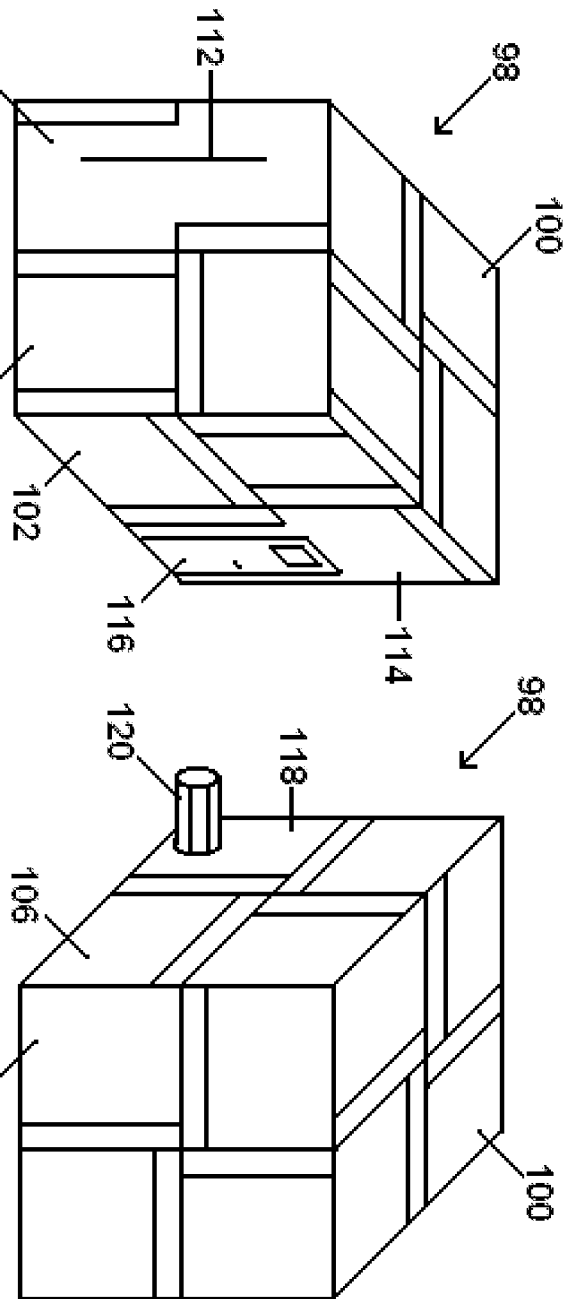


Figure 4B

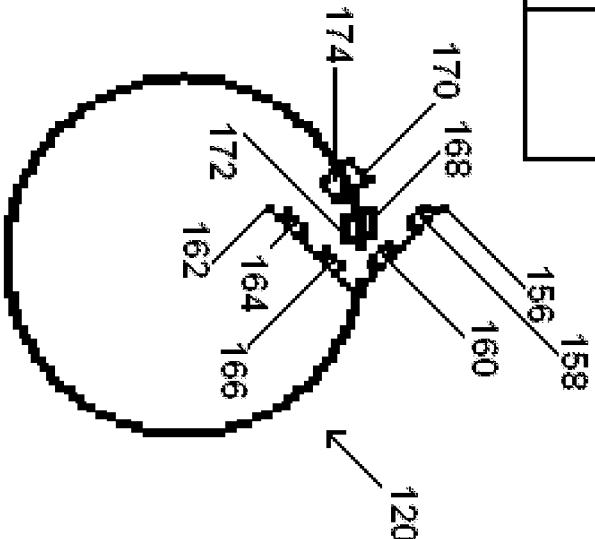


Figure 4E

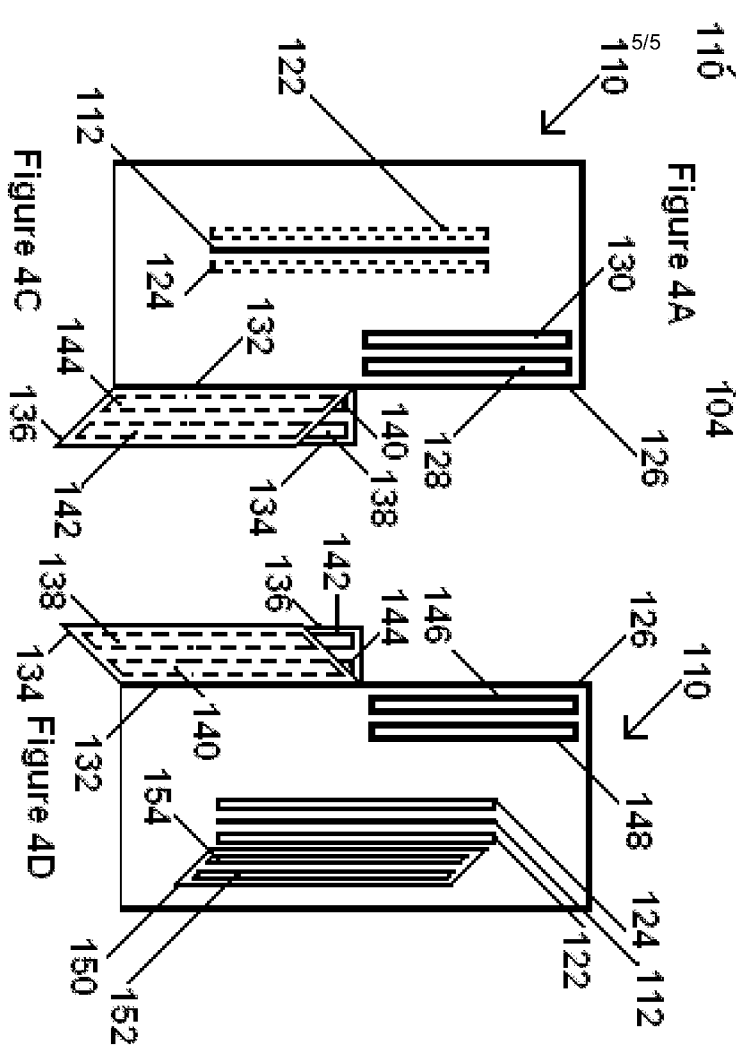


Figure 4A

Figure 4C

Figure 4D

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

- ☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1						Remove
Applicant Authority		☒ Inventor		☐ Legal Representative under 35 U.S.C. 117		☐ Party of Interest under 35 U.S.C. 118
Prefix	Given Name	Middle Name		Family Name		Suffix
	Samer			Al-Azem		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Houston	State/Province	TX	Country of Residence i		US
Citizenship under 37 CFR 1.41(b) i		US				
Mailing Address of Applicant:						
Address 1		2808 Virginia Street				
Address 2						
City	Houston	State/Province		TX		
Postal Code	77098	Country i		US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).						
☒ An Address is being provided for the correspondence Information of this application.						
Name 1		Samer		Name 2		Al-Azem
Address 1		2808 Virginia Street				
Address 2						
City		Houston		State/Province		TX
Country i		US		Postal Code		77098
Phone Number		713-305-6162		Fax Number		
Email Address		salazem@yahoo.com		Add Email		Remove Email

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES		

Application Information:

Title of the Invention	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES		
Attorney Docket Number		Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	5	Suggested Figure for Publication (if any)	

Publication Information:

☐	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number			

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.			
Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61481296	2011-05-02
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).	
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IPR2025-01214

EX1002

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES		

			Remove
Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			☒ Yes ☐ No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.				
Assignee 1				Remove
If the Assignee is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee Data may be generated within this form by selecting the Add button.				
Add				

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.					
Signature	/Samer Al-Azem/			Date (YYYY-MM-DD)	2012-05-01
First Name	Samer	Last Name	Al-Azem	Registration Number	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**



Declaration
Submitted
With Initial
Filing

OR



Declaration
Submitted After Initial
Filing (surcharge
(37 CFR 1.16(f))
required)

Attorney Docket
Number

First Named Inventor

Samer Al-Azem

COMPLETE IF KNOWN

Application Number

Filing Date

May 1, 2012

Art Unit

Examiner Name

I hereby declare that: (1) Each inventor's residence, mailing address, and citizenship are as stated below next to their name; and (2) I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention titled:

ATTACHMENT SYSTEMS AND METHODS USABLE TO FORM ENCLOSURES

(Title of the Invention)

the application of which



is attached hereto

OR



was filed on (MM/DD/YYYY) _____ as United States Application Number or PCT International

Application Number _____ and was amended on (MM/DD/YYYY) _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Authorization To Permit Access To Application by Participating Offices



If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application is filed to have access to the above-identified patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

[Page 1 of 3]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Claim of Foreign Priority Benefits

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

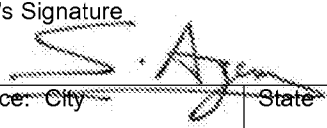
☐

Additional foreign application number(s) are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 2 of 3]

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐		The address associated with Customer Number:		OR		☒ Correspondence address below	
Name Samer Al-Azem							
Address 2808 Virginia Street							
City Houston				State TX		Zip 77098	
Country USA			Telephone 713-305-6162			Email salazem@yahoo.com	
WARNING:							
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available. Petitioner/applicant is advised that documents which form the record of a patent application (such as the PTO/SB/01) are placed into the Privacy Act system of records DEPARTMENT OF COMMERCE, COMMERCE-PAT-7, System name: <i>Patent Application Files</i>. Documents not retained in an application file (such as the PTO-2038) are placed into the Privacy Act system of COMMERCE/PAT-TM-10, System name: <i>Deposit Accounts and Electronic Funds Transfer Profiles</i>. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.							
NAME OF SOLE OR FIRST INVENTOR:				☐ A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any]) Samer U.				Family Name or Surname Al-Azem			
Inventor's Signature 					Date May 1, 2012		
Residence: City Houston		State TX		Country USA		Citizenship USA	
Mailing Address 2808 Virginia St							
City Houston		State TX		Zip 77098		Country USA	
☐ Additional inventors or a legal representative are being named on the _____ supplemental sheet(s) PTO/SB/02A or 02LR attached hereto							

SCORE Placeholder Sheet for IFW Content

Application Number: 13461553

Document Date: 5/1/2012

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

- Drawings

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface using the Supplemental Content tab.
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