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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	Push Through Fastener with Integrated Seal		
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.)
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Inventor Information:

Inventor 1 Remove					
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Derek		Scroggie		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Macomb	State/Province	MI	Country of Residence	US
Mailing Address of Inventor:					
Address 1					
Address 2					
City	Macomb	State/Province	MI		
Postal Code		Country	US		
Inventor 2 Remove					
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Michelle		Bozinovski		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Macomb Township	State/Province	MI	Country of Residence	US
Mailing Address of Inventor:					
Address 1					
Address 2					
City	Macomb Township	State/Province	MI		
Postal Code		Country	US		
Inventor 3 Remove					
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Robert		Murawski		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					

Termax Company-Exhibit 1002
 Termax Company v. Illinois Tool Works Inc.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	Push Through Fastener with Integrated Seal		

City	Clinton Township	State/Province	MI	Country of Residence	US
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Mailing Address of Inventor:

Address 1			
Address 2			
City	Clinton Township	State/Province	MI
Postal Code		Country	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.

Customer Number	26359		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	Push Through Fastener with Integrated Seal		
Attorney Docket Number		Small Entity Status Claimed	☐
Application Type	Provisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	9	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). Either enter 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.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	Push Through Fastener with Integrated Seal		
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	26359		

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.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

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).

			Remove
Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Priority Claimed
			☒ Yes ☐ No

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Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	Push Through Fastener with Integrated Seal	

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 instant patent application is filed access to the instant 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 instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant 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 instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

- ☐ Assignee
 ☐ Legal Representative under 35 U.S.C. 117
 ☐ Joint Inventor
- ☐ Person to whom the inventor is obligated to assign.
 ☐ Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	Push Through Fastener with Integrated Seal		

Mailing Address Information:			
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1				
Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).				
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		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee Data may be generated within this form by selecting the Add button.				

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	Push Through Fastener with Integrated Seal	

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications					
Signature	/jamesmrobertson/			Date (YYYY-MM-DD)	2012-12-19
First Name	James	Last Name	Robertson	Registration Number	36905
Additional Signature may be generated within this form by selecting the Add button.					

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.**

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET – Page 1 of 2

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. _____

INVENTOR(S)		
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
Derek	Scroggie	Macomb, MI
Michelle	Bozinovski	Macomb Township, MI
Robert	Murawski	Clinton Township, MI

Additional inventors are being named on the _____ separately numbered sheets attached hereto.

TITLE OF THE INVENTION (500 characters max):

 PUSH THROUGH FASTENER WITH INTEGRATED SEAL

Direct all correspondence to: **CORRESPONDENCE ADDRESS**

☒ The address corresponding to Customer Number: 26359

OR

☐ Firm or
☐ Individual Name

Address _____

City	State	Zip
Country	Telephone	Email

ENCLOSED APPLICATION PARTS (check all that apply)

☒ Application Data Sheet. See 37 CFR 1.76
 ☐ CD(s), Number of CDs _____

☐ Drawing(s) Number of Sheets _____
 ☐ Other (specify) _____

☐ Specification (e.g. description of the invention) Number of Pages _____

Fees Due: Filing Fee of \$250 (\$125 for small entity). If the specification and drawings exceed 100 sheets of paper, an application size fee is also due, which 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).

METHOD OF PAYMENT OF THE FILING FEE AND APPLICATION SIZE FEE FOR THIS PROVISIONAL APPLICATION FOR PATENT

☐ Applicant claims small entity status. See 37 CFR 1.27.
 250.00

☐ A check or money order made payable to the *Director of the United States Patent and Trademark Office* is enclosed to cover the filing fee and application size fee (if applicable).
 TOTAL FEE AMOUNT (\$)

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the filing fee and application size fee (if applicable) or credit any overpayment to Deposit Account Number: _____

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. 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 10 hours 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.

PROVISIONAL APPLICATION COVER SHEET
Page 2 of 2

PTO/SB/16 (09-11)

Approved for use through 05/31/2015. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are: _____

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.

SIGNATURE /jamesmrobertson/ Date 12/19/2012

TYPED or PRINTED NAME James M. Robertson REGISTRATION NO. 36905
(if appropriate)

TELEPHONE 864-621-0454 Docket Number: 15699-0024

PUSH THROUGH FASTENER WITH INTEGRATED SEAL

TECHNICAL FIELD

[0001] The present disclosure relates generally to fasteners and, more particularly, the disclosure pertains to push-in type fasteners having seals for creating a barrier to the penetration of moisture, dust and noise through an aperture in which the fastener is secured.

BACKGROUND

[0002] Push-in type W-base fasteners are used in a variety of assemblies to secure components of the assembly. For example, in automobiles stud-like fasteners are used to secure trim parts to body panels. The fastener includes a stem with deflectable members for securing the fastener to a body panel through an aperture in the panel through which the stem is pushed. A head attached to the stem is configured for attachment to the trim part. The deflectable members are pushed through the panel and engage the panel in the hole or on a surface of the panel opposite from the surface through which the stem is inserted.

[0003] W-base retainers are typically designed as a component of an assembly and work in conjunction with the other components with the goal of retaining and maintaining a “zero gap” condition between the sheet metal support panel and the molding on the vehicle. To ensure a “zero gap” the W-base retainer provides a continuous pull down or clamp load condition. The retainer itself is designed so that there is a gap between its lower collar feature and the underlying sheet metal support panel. This gap provides for constant pull down or clamp load force between the engagement wings and the upper head feature. This constant pull down provides and maintains the desired “zero gap” condition between the sheet metal support panel and the molding. If this design gap or pull down is compromised, an unacceptable gap condition may occur within the final assembled product.

[0004] By way of example only, and not limitation, various sealing arrangements for push through fasteners are illustrated and described in US Patent 5,173,026 to Cordola et al. and US published application 2006/0099051 to Moerke, the contents of all of which are incorporated

herein by reference in their entirety. As much as is reasonably possible, it is desirable to limit the generation of squeaks, rattles and objectionable noises that may be created from movement of the fastener relative to the parts to which it is connected. To minimize corrosion from within panels and the like, it is desirable also to prevent moisture from precipitation, carwashes, etc. from seeping past the fastener, and through the aperture in which the fastener is installed. A variety of sealing structures have been used to minimize rattles and squeaks and to prevent moisture seepage past the fastener. Concave skirts have been used on push-in fasteners at the base of the head to confront the body panel around the hole through the panel. The skirt is compressed against the panel and thereby provides a biasing force against the parts of the fastener that confront the panel on the opposite side. Flexible skirts of this type also accommodate some variation in the thickness of the panel or substrate by compensating for looseness that might occur otherwise for fasteners mounted on thin panels.

[0005] Elastomeric and foam seals have been used in conjunction with the skirt, to further improve sealing qualities against moisture penetration. The seals have been provided as a separate part slid over the stem and against the skirt or as a part adhered to or otherwise affixed to the underside of the skirt.

[0006] Although fasteners as described have been used successfully to limit squeaks and rattles and to inhibit the penetration of moisture past the fastener, further improvements are desirable. Installing the seal as a separate part is cumbersome and awkward, complicating installation of the fastener. If installed on the fastener in advance, the seal can become dislodged, even if properly placed on the fastener. In automated assembly plants, a fastener missing a seal may not be detected and may be installed on the article in which it is used inadvertently. A loose fastener of this type will rattle or squeak, may provide a path for the penetration of moisture and may not adequately secure the second article or item as required. If the seal is adhered to the skirt of the fastener, the seal may not function optimally if the fastener is not seated squarely in the panel. Further, the position of the seal relative to the fastener skirt has limited the range of panel thicknesses with which the fastener can be used effectively to provide a seal against moisture intrusion.

[0007] As will be understood by those of skill in the art, a seal which is compressed between the fastener head and the support panel may experience a build, stack up condition. This build, stack up compromises the designed gap between the lower collar feature of the fastener and the underlying sheet metal support panel. As a result, the “zero gap” condition between the sheet metal support panel and the molding may be compromised as well. A seal in a build, stack up condition may result in undesired outboard movement of the molding and creating a gap between the support panel and the overlying molding component.

SUMMARY

[0008] The present disclosure provides advantages and alternatives over the prior art by providing a push-in type fastener having an integrated fully functional sealing feature that does not experience a build, stack up condition that may reduce the clamp load force. Thus, the “zero gap” condition is maintained between the sheet metal and the mating molding substrate. This contrasts with current foam seal retainers which may undergo a stack up condition and create a gap between the sheet metal and the molding substrate in some circumstances.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] FIG. 1 is a set of views illustrating a sealing fastener in accordance with the present disclosure;

[0010] FIG. 2 is a set of views illustrating a sealing fastener using an annular foam seal in accordance with the prior art;

[0011] FIG. 3 is a set of views illustrating a sealing fastener in accordance with the present disclosure engaging trim molding with a “zero gap” condition between the trim molding and a sheet metal support panel;

[0012] FIG. 4 is a set of views similar to FIG. 3 illustrating a sealing fastener using an annular foam seal in accordance with the prior art illustrating the creation of a gap condition between the trim molding and a sheet metal support panel;

[0013] FIG. 5 is a schematic cross-sectional view illustrating a sealing fastener in accordance with the present disclosure;

[0014] FIG. 6 is a set of views illustrating the retaining function of a W-base fastener;

[0015] FIG. 7 is a set of views illustrating the compression action of a seal on a fastener in accordance with the present disclosure;

[0016] FIG. 8 is a set of views illustrating the compression action of a seal on a fastener in accordance with US patent application 2006/0099051 as best understood; and

[0017] FIG. 9 is a set of views illustrating the compression action of a seal on a fastener in accordance with US patent 5,173,026 as best understood.

[0018] Before the embodiments of the disclosure are explained in detail, it is to be understood that the disclosure is not limited in its application to the details of construction and the arrangements of the components set forth in the following description or illustrated in the drawings. The disclosure is capable of other embodiments and of being practiced or being carried out in various ways. Also, it is understood that the phraseology and terminology used herein are for the purpose of description and should not be regarded as limiting. The use herein of "including", "comprising" and variations thereof is meant to encompass the items listed thereafter and equivalents thereof, as well as additional items and equivalents thereof.

DETAILED DESCRIPTION

[0019] Referring now more specifically to the drawings and to FIG. 1 in particular, it may be seen that the present disclosure provides a fastener 10 adapted to secure a molding or trim

element 12 to an underlying support panel 14 of metal or the like. The fastener 10 includes a head 16 and a snap engaging stem 18. Head 16 and stem 18 can be formed as a monolithic body by injection molding or other suitable molding or fabrication process. The material for fastener 10 can be selected as optimally desirable for its particular installation and use. Accordingly, fastener 10 can be formed of plastic, such as nylon. It should be understood that the exemplary embodiment for fastener 10 and the particular configurations for snap engaging stem 18 and head 16 are provided as suitable for the particular installation.

[0020] A perimeter seal 20 of flexible polymeric material is disposed about the perimeter of a lower platform 22 generally at the intersection between the head 16 and the stem 18. By way of example only, the perimeter seal may be formed by over-molding or two-shot molding processes. Referring to FIG. 2, a prior art sealing arrangement is illustrated wherein an annular foam seal 124 is disposed below a lower platform 122.

[0021] As best seen through joint reference to FIGS. 3, 5 and 7, a fastener incorporating a perimeter seal consistent with the present disclosure may be used to secure a molding trim component to an underlying support panel. As shown in FIG. 3, in an embodiment consistent with the present disclosure, compression of the perimeter seal does not lead to a build, stack up condition. Rather there is open free space below the lower platform which does not accumulate seal material when the seal is compressed. All portions of the deforming foot project outboard from the lower platform on which it is mounted. Accordingly, interference gapping is eliminated and a zero gap condition is established between the support panel and the molding.

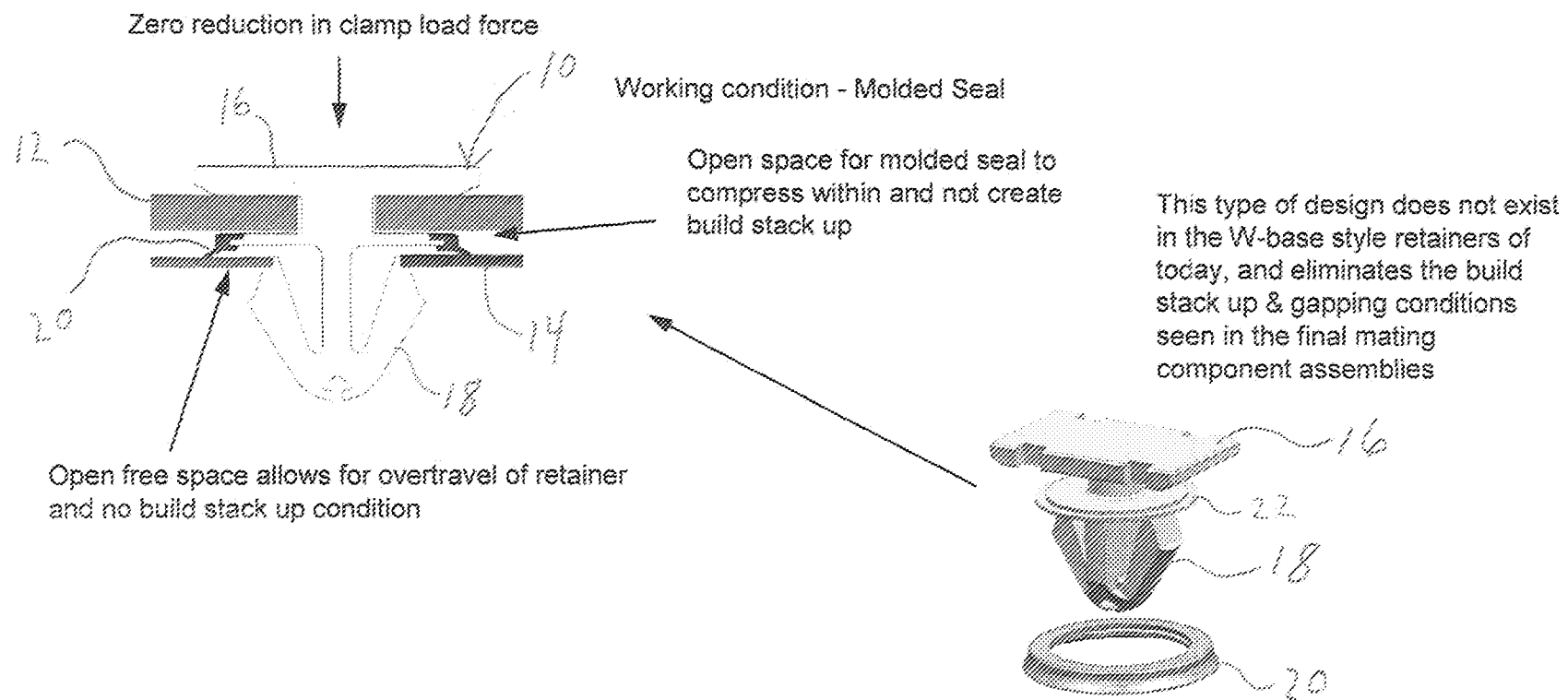
[0022] As best seen in FIG. 4, in a prior art system incorporating an annular foam seal, stack-up may take place and result in a gap condition between the support panel and the molding. As will be appreciated, this gap condition may lead to undesirable rattling.

[0023] Referring to FIGS. 7-9, it may be seen that a seal consistent with the present disclosure having a deformable foot outboard from the lower platform represents an improvement over prior perimeter seals. In particular, known prior seals are subject to stack up conditions in use and may produce an undesired gap condition.

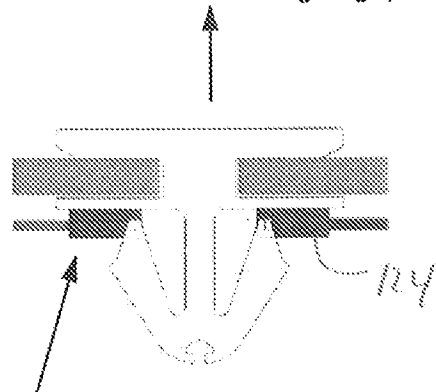
[0024] Of course, variations and modifications of the foregoing are within the scope of the present disclosure. It is understood that the disclosure disclosed and defined herein extends to all alternative combinations of two or more of the individual features mentioned or evident from the text and/or drawings. All of these different combinations constitute various alternative aspects of the present disclosure. The embodiments described herein explain the best modes known for practicing the disclosure and will enable others skilled in the art to utilize the disclosure. The claims are to be construed to include alternative embodiments to the extent permitted by the prior art. Of course, variations and modifications of the foregoing are within the scope of the present disclosure. Thus, it is to be understood that the disclosure disclosed and defined herein extends to all alternative combinations of two or more of the individual features mentioned or evident from the text and/or drawings. All of these different combinations constitute various alternative aspects of the present disclosure. The embodiments described herein explain the best modes known for practicing the disclosure and will enable others skilled in the art to utilize the disclosure. The claims are to be construed to include alternative embodiments and equivalents to the extent permitted by the prior art.

WHAT IS CLAIMED IS:

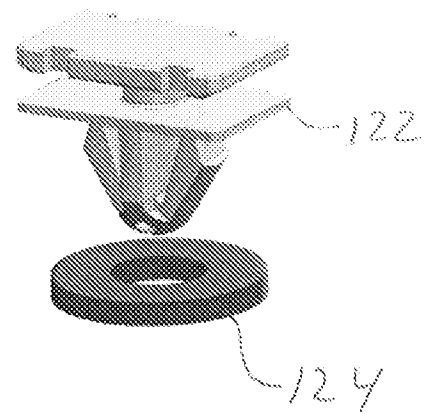
1. A novel and nonobvious push through fastener as shown and described and equivalents thereto.



Stack up creates build up movement outboard
from sheet metal -- resulting in gap



Compression style seal creating
build stack up condition



Prior Art

FIG. 2

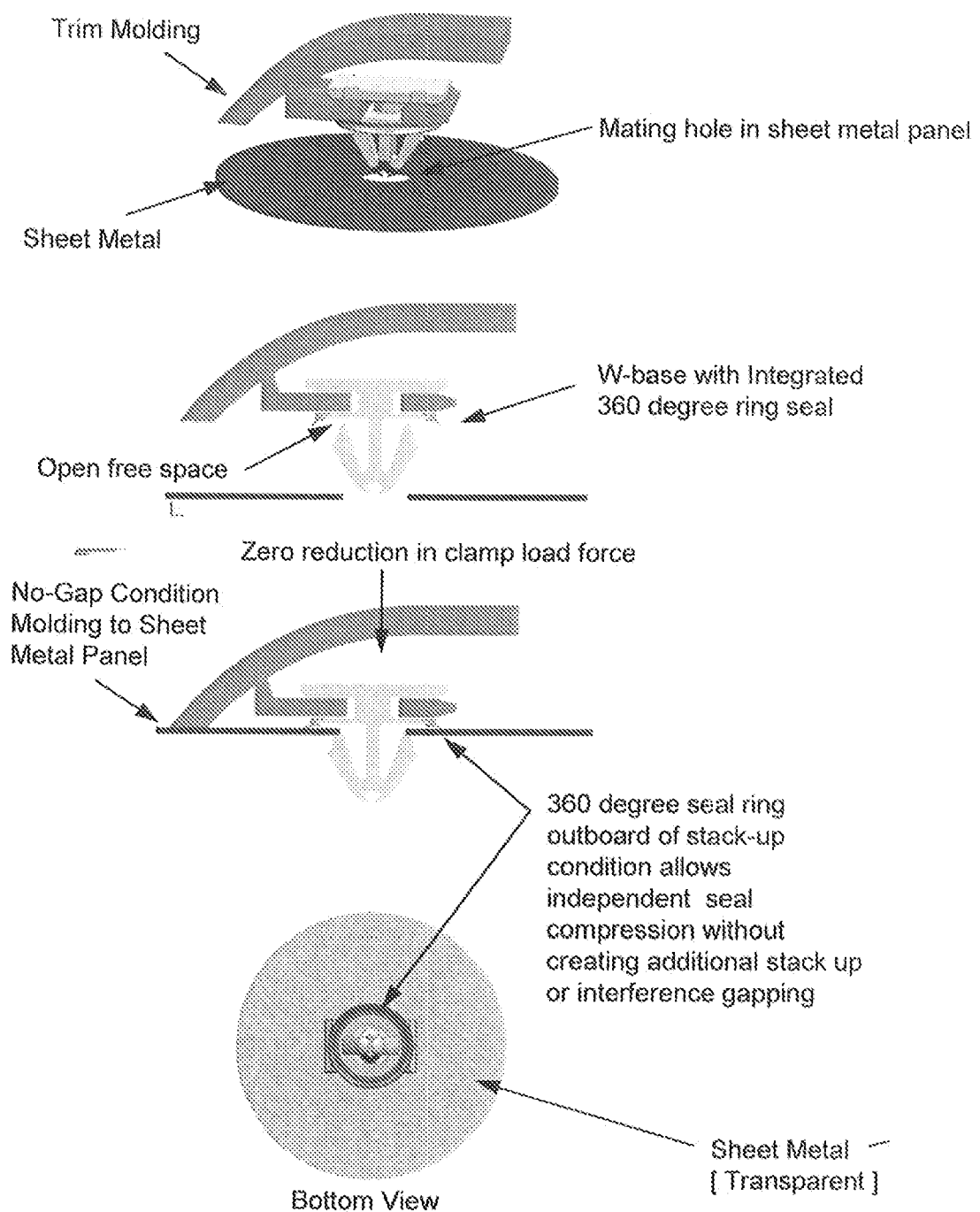


FIG. 3

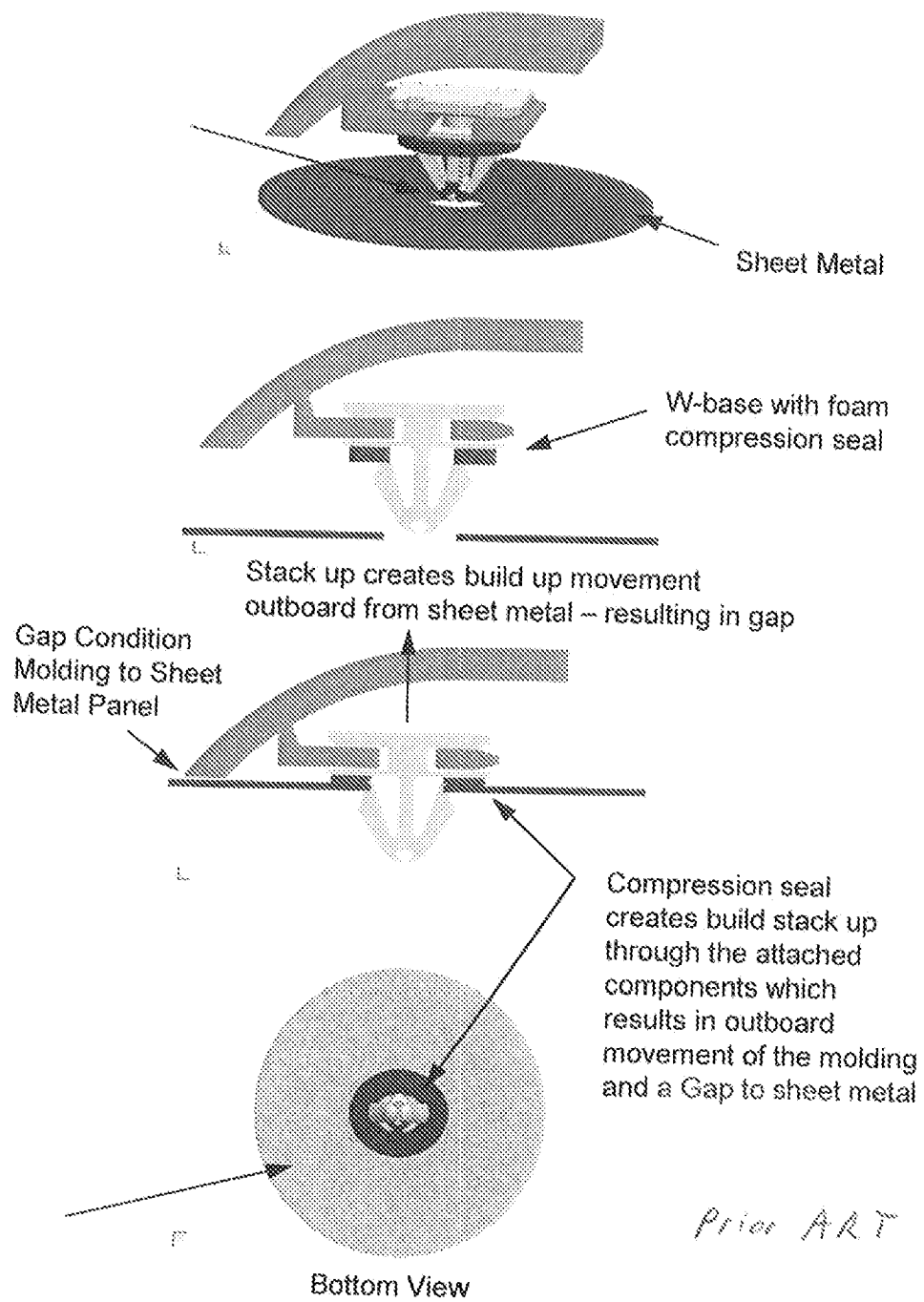


FIG. 4

Working condition - Molded Seal

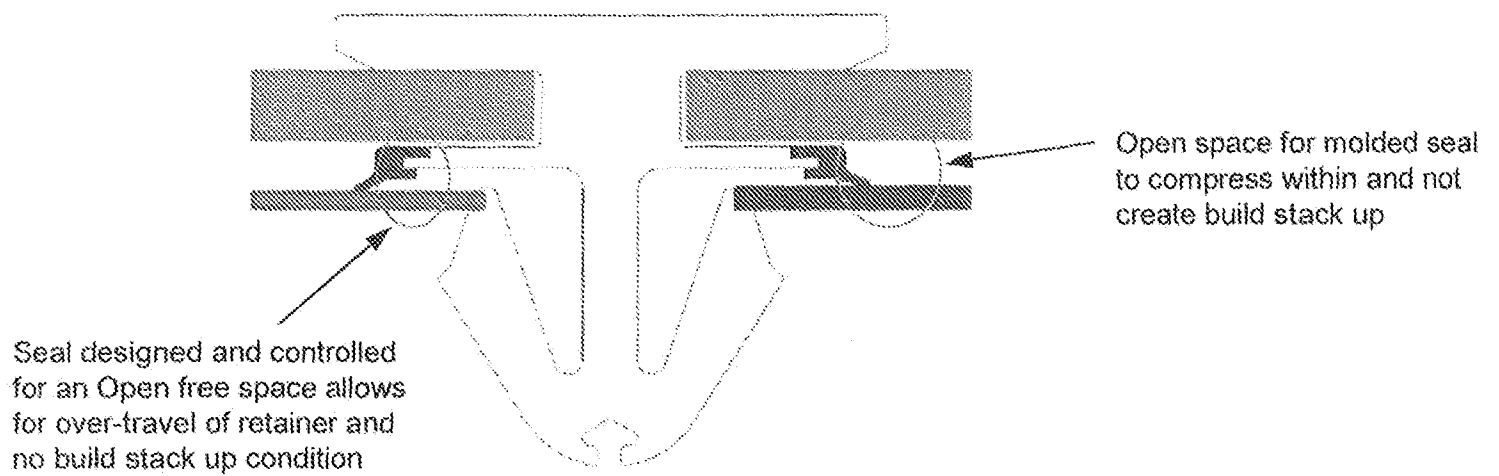


FIG. 5.

W-BASE RETAINER

RETENTION FORCES & HOW THE W-BASE STYLE RETAINER FUNCTIONS

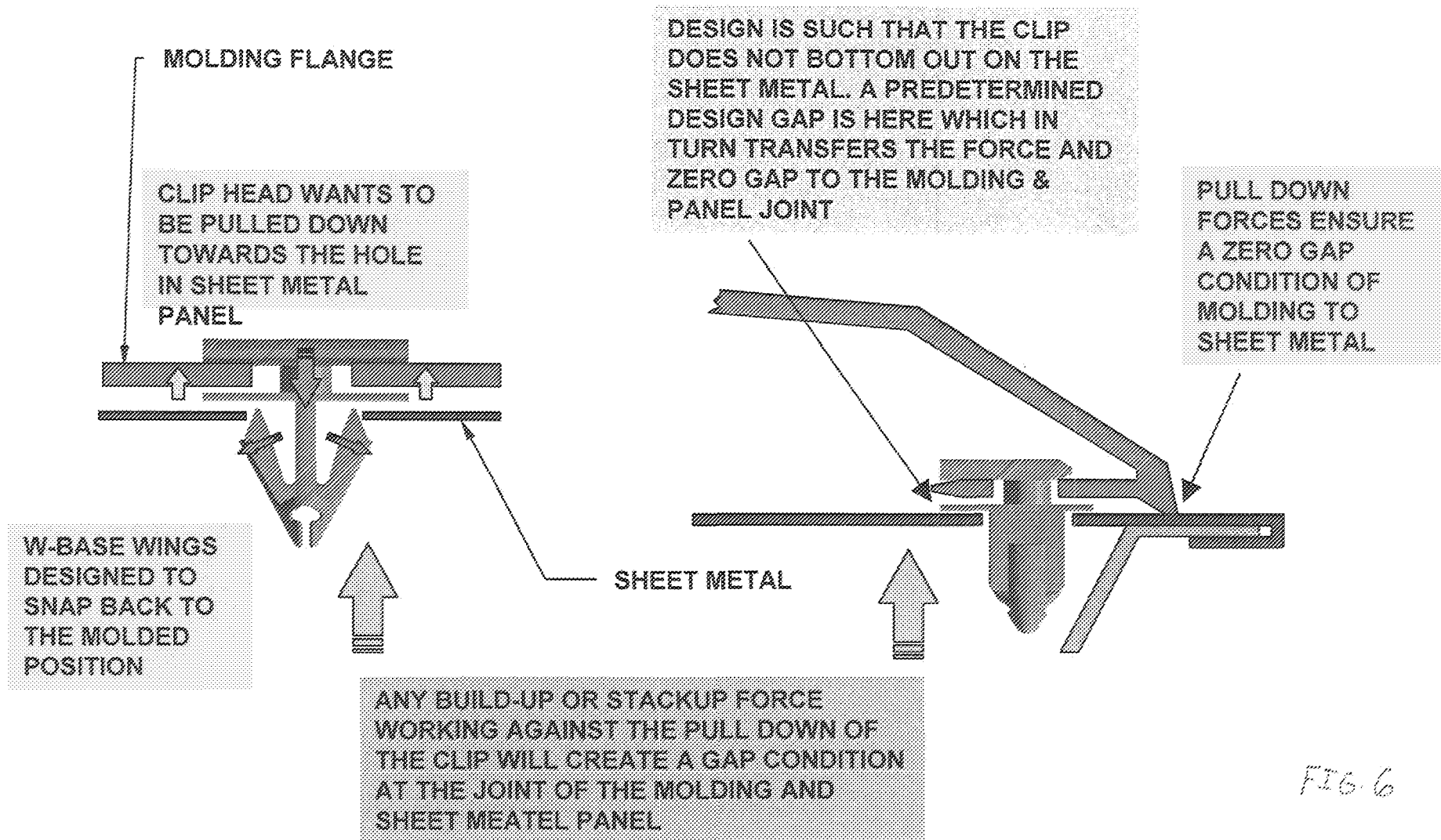


FIG. 6

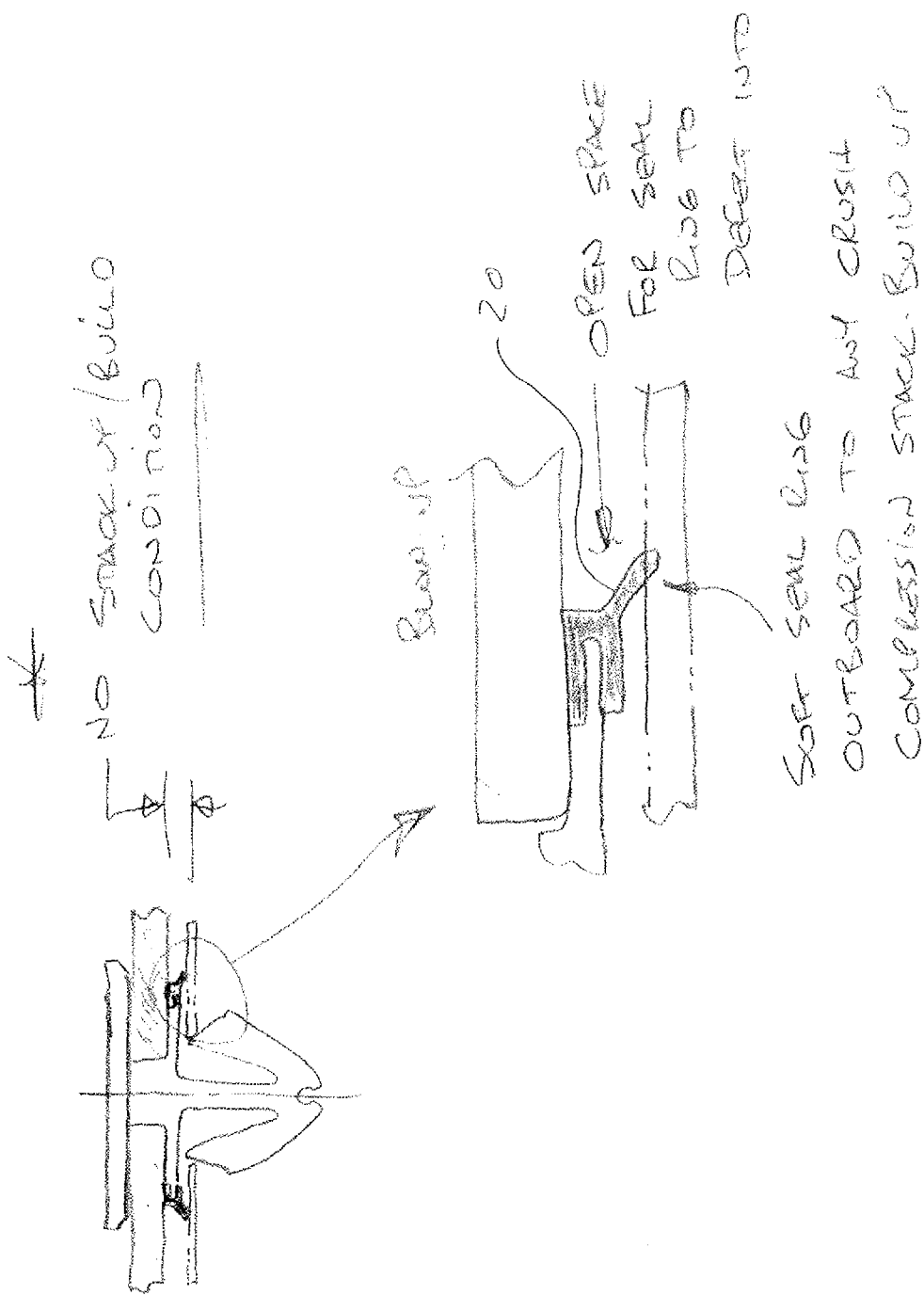
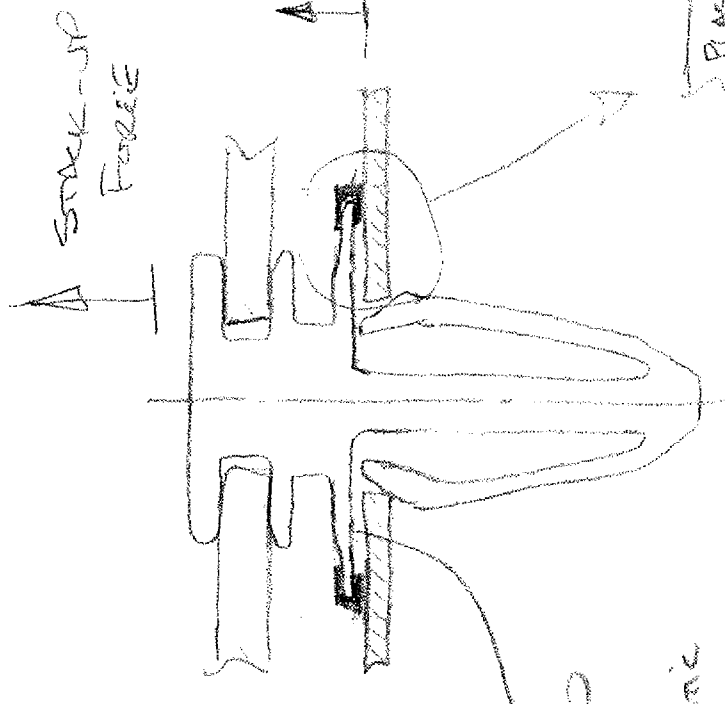
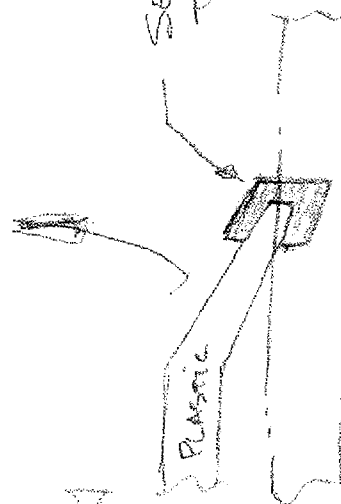


FIG. 7



CLIP
DESIGNED
SO THAT
HARD PLASTIC
UMBRELLA
FLATTENS OUT
(MOLDED CONCAVE)

CREATES BUILD/STACK-UP
FROM HARD PLASTIC
SPRINGS - BACK OF
CLIP UMBRELLA



SEAL IS ADDED
TO HARD PLASTIC
UMBRELLA TO
CREATE A
BETTER SEAL

SEAL TO PANEL
INSTEAD OF
PLASTIC RING

BUILD-UP

PARENT
US 2004/009905 (A1)

PRIOR ART

FIG. 8

PLASTIC
SPRINGING
COMPRESSION

SEAL FORCE
IS GENERATED
BY HARD
PLASTIC UMBRELLA

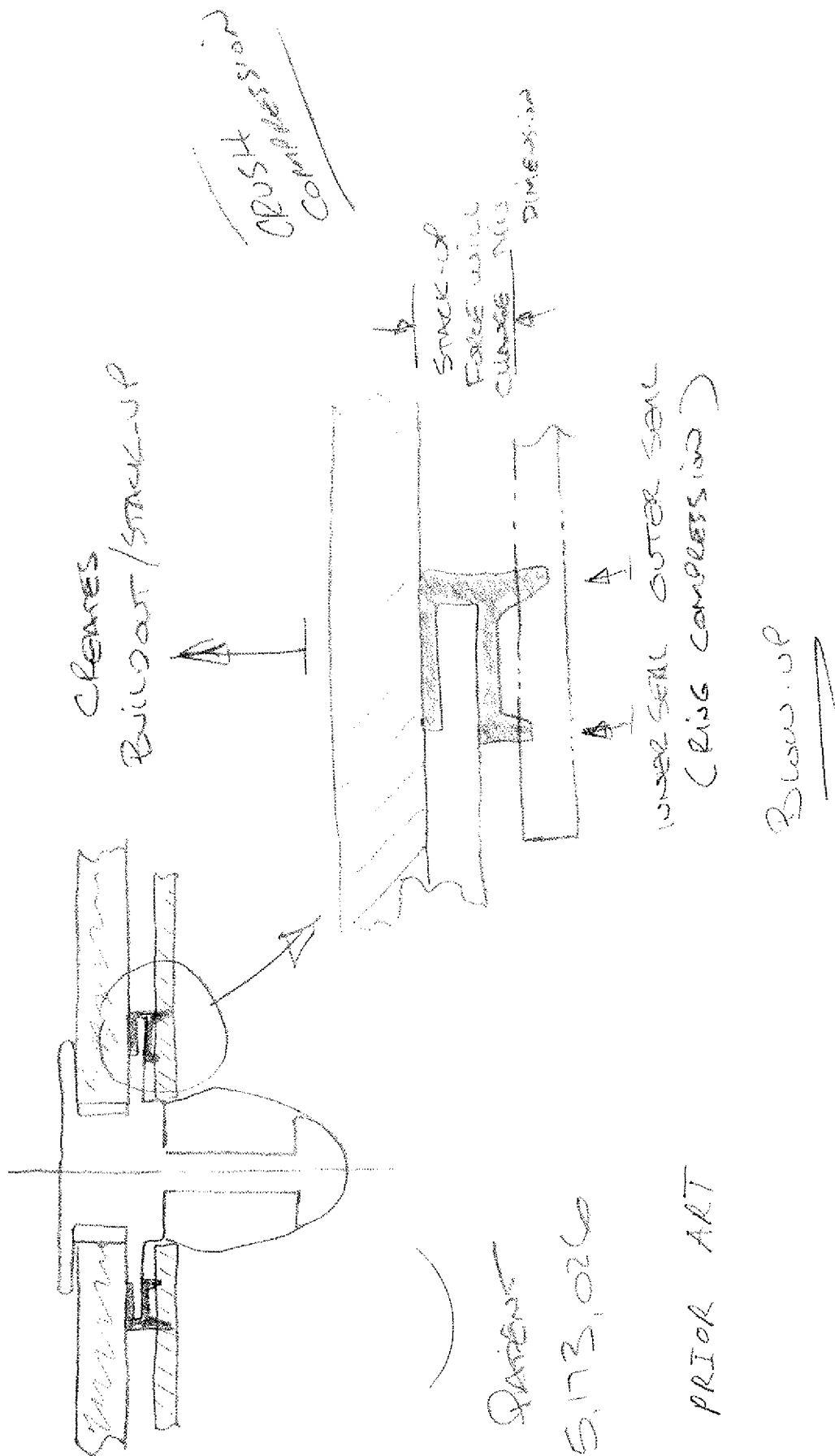


FIG. 9

Electronic Patent Application Fee Transmittal

Application Number:

Filing Date:

Title of Invention:

Push Through Fastener with Integrated Seal

First Named Inventor/Applicant Name:

Derek Scroggie

Filer:

Charles Brandon Browning/James M. Robertson

Attorney Docket Number:

15669-0024

Filed as Large Entity

Provisional Filing Fees

Description

Fee Code

Quantity

Amount

**Sub-Total in
USD(\$)**

Basic Filing:

Provisional application filing

1005

1

250

250

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:				
Total in USD (\$)				250

Electronic Acknowledgement Receipt

EFS ID:	14520084
Application Number:	61739604
International Application Number:	
Confirmation Number:	5393
Title of Invention:	Push Through Fastener with Integrated Seal
First Named Inventor/Applicant Name:	Derek Scroggie
Customer Number:	26359
Filer:	Charles Brandon Browning/James M. Robertson
Filer Authorized By:	Charles Brandon Browning
Attorney Docket Number:	15669-0024
Receipt Date:	19-DEC-2012
Filing Date:	
Time Stamp:	19:03:40
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 250
RAM confirmation Number	12467
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1		JMRProvPushThrough.PDF	5558676 21f48ed442fac4d7aa53fd7e45f7e8a37e612947	yes	23
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Application Data Sheet		1	6	
	Provisional Cover Sheet (SB16)		7	8	
	Specification		9	14	
	Drawings-other than black and white line drawings		15	23	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	29607 75830714cfe300632d8a69caa8be81518d75515f	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			5588283		
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Application Number: 61739604

Document Date: 12/19/2012

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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
61/739,604	12/19/2012		250	15699-0024		

CONFIRMATION NO. 5393

26359

Maynard Cooper & Gale, PC
1901 Sixth Avenue North
2400 Regions/Harbert Plaza
BIRMINGHAM, AL 35203-2618

FILING RECEIPT



OC000000058438972

Date Mailed: 01/07/2013

Receipt is acknowledged of this provisional patent application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. 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**

Inventor(s)

Derek Scroggie, Macomb, MI;
Michelle Bozinovski, Macomb Township, MI;
Robert Murawski, Clinton Township, MI;

Applicant(s)

Derek Scroggie, Macomb, MI;
Michelle Bozinovski, Macomb Township, MI;
Robert Murawski, Clinton Township, MI;

Power of Attorney:

James Robertson--36905

If Required, Foreign Filing License Granted: 01/02/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/739,604**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No

Title

Push Through Fastener with Integrated Seal

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