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(12) **United States Patent**  
**Aldrich et al.**

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(54) **DAMMING DEVICE FOR CABLE SEALING**

USPC ..... **174/653**; 174/652; 174/650; 439/271

(71) Applicant: **Cooper Technologies Company**,  
Houston, TX (US)

(58) **Field of Classification Search**  
USPC ..... 174/652, 653, 650; 439/271, 278, 279  
See application file for complete search history.

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(US)

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(73) Assignee: **Cooper Technologies Company**,  
Houston, TX (US)

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(\* ) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

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This patent is subject to a terminal dis-  
claimer.

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(21) Appl. No.: **14/135,251**

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(Continued)

(65) **Prior Publication Data**

*Primary Examiner* — Dhirubhai R Patel

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(74) *Attorney, Agent, or Firm* — King & Spalding LLP

**Related U.S. Application Data**

(57) **ABSTRACT**

(63) Continuation-in-part of application No. 13/492,293,  
filed on Jun. 8, 2012, now Pat. No. 8,614,400.

A damming device for a conductor in a cable gland connector is described herein. The damming device can include a first portion having a first thickness of a flexible elastomeric material disposed between a first diameter and a second diameter. The damming device can also include a second portion having a second thickness of the flexible elastomeric material disposed between a third diameter and the second diameter. The damming device can also include a hole having the third diameter. The first diameter is greater than the second diameter, and the second diameter is greater than the third diameter. Further, the first thickness is greater than the second thickness. The damming device can be disposed, under tension, within a slot formed between a top portion of a compound chamber and a bottom portion of a union body.

(60) Provisional application No. 61/495,755, filed on Jun.  
10, 2011.

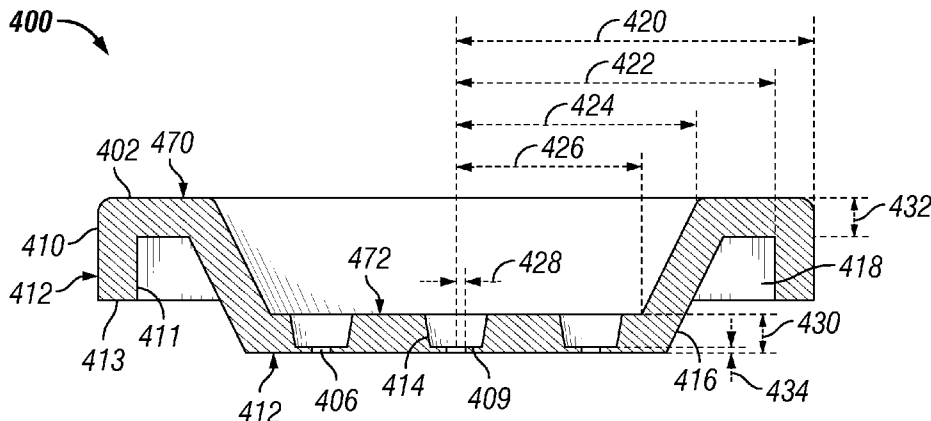
(51) **Int. Cl.**

|                    |           |
|--------------------|-----------|
| <b>H01B 17/58</b>  | (2006.01) |
| <b>H02G 3/08</b>   | (2006.01) |
| <b>H02G 15/013</b> | (2006.01) |

(52) **U.S. Cl.**

CPC ..... **H01B 17/583** (2013.01); **H02G 3/083**  
(2013.01); **H02G 3/088** (2013.01); **H02G**  
**15/013** (2013.01)

**20 Claims, 12 Drawing Sheets**



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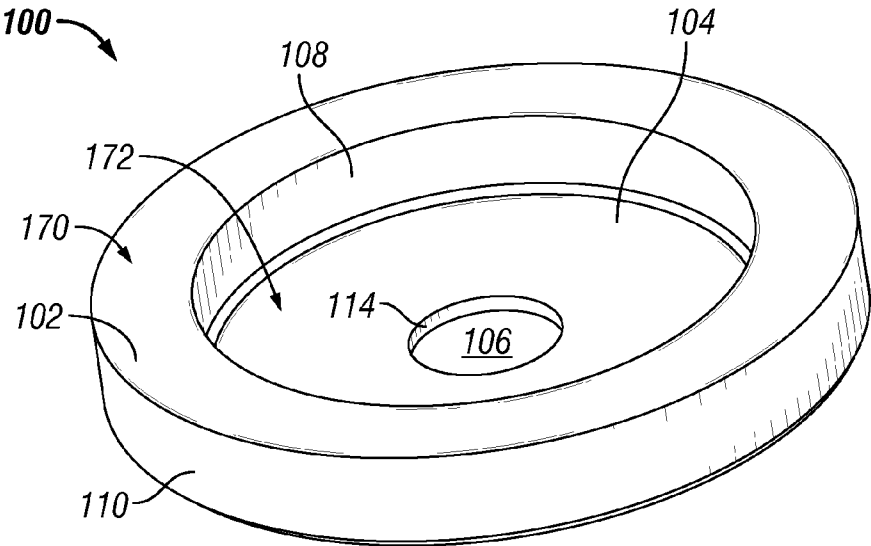


FIG. 1A

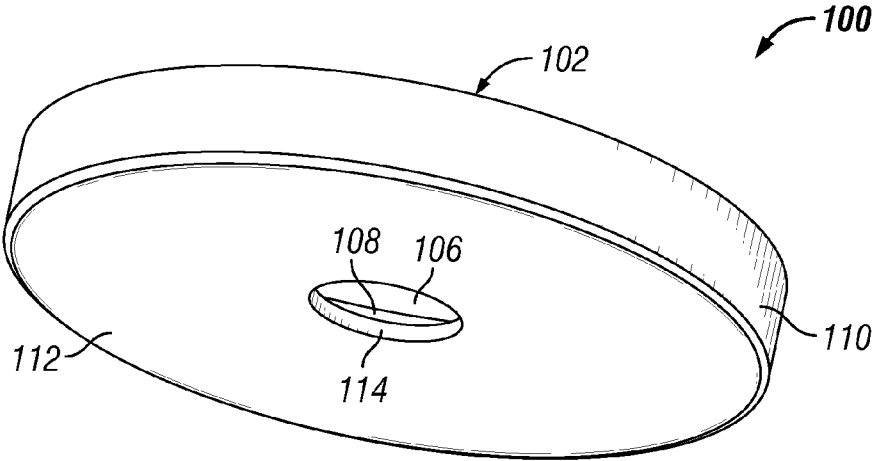


FIG. 1B

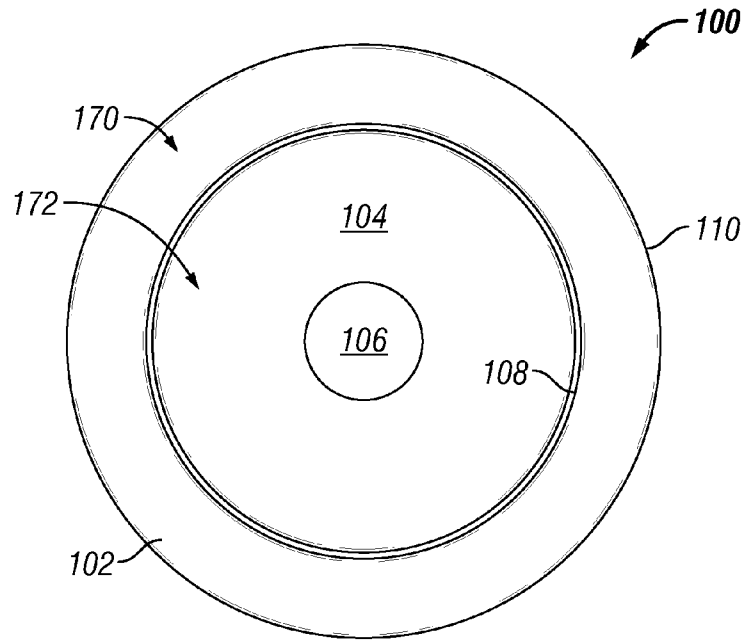


FIG. 1C

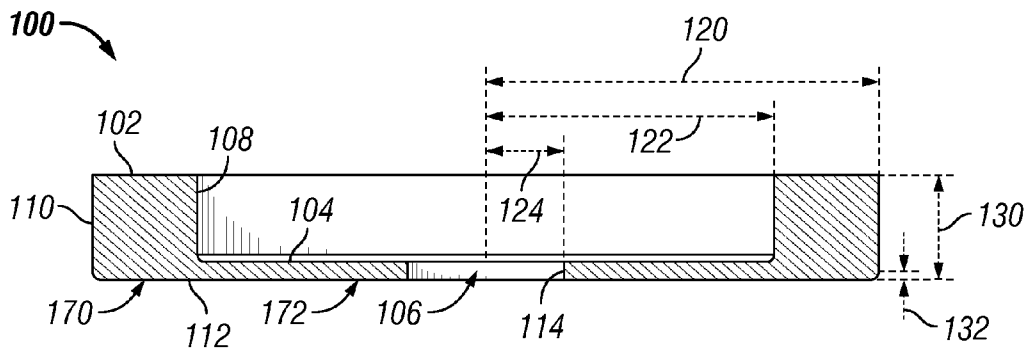


FIG. 1D

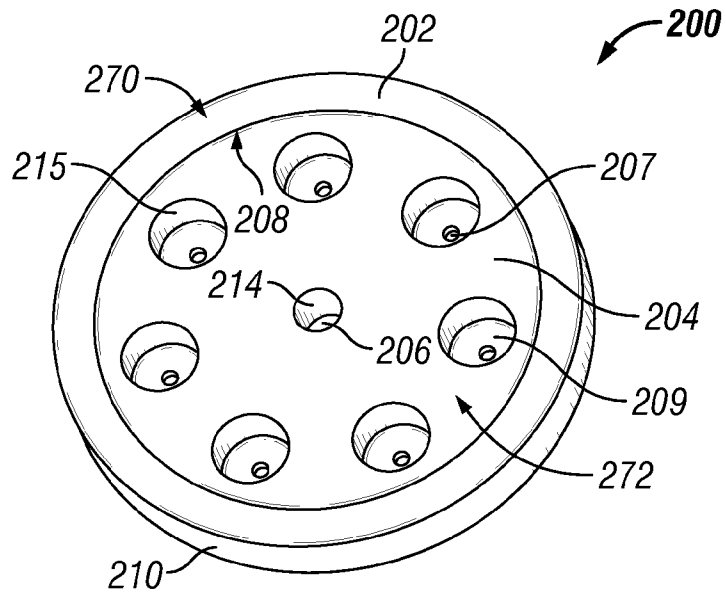


FIG. 2

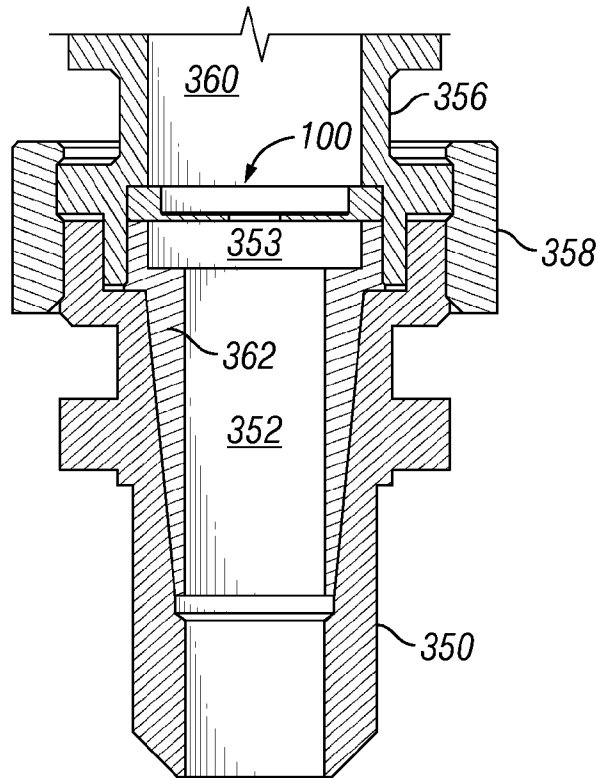


FIG. 3

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