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(12) **United States Design Patent**  
**Guan**

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(54) **CONNECTOR**

(71) Applicant: **Haifeng Guan**, Yangjiang (CN)

(72) Inventor: **Haifeng Guan**, Yangjiang (CN)

(\*\*) Term: **15 Years**

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(52) **U.S. Cl.**  
USPC ..... **D8/382; D8/387**

(58) **Field of Classification Search**  
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D8/388, 389  
CPC ..... F16B 5/002; F16B 5/0004; F16B 5/0088;  
F16B 5/0092; F16B 5/0208; F16B  
5/0275; F16B 5/0283; F16B 5/06; F16B  
2200/503  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 2,888,971 A \* 6/1959 Wootton ..... F16B 5/06  
248/214
- 3,491,820 A \* 1/1970 Ostling ..... F16B 21/09  
248/225.11
- 3,645,162 A \* 2/1972 Welch ..... F16B 21/09  
52/285.3
- 3,894,377 A \* 7/1975 Welch ..... F16B 12/22  
52/584.1
- 3,996,718 A \* 12/1976 Welch ..... F16B 12/22  
312/111
- D263,788 S \* 4/1982 McKinnon ..... D8/394
- 4,470,716 A \* 9/1984 Welch ..... F16B 12/38  
248/221.12
- 4,473,316 A \* 9/1984 Welch ..... F16B 12/22  
5/299
- 4,516,371 A \* 5/1985 Simpson ..... E04C 3/08  
52/409
- D285,647 S \* 9/1986 Sachs ..... 174/41

- D294,676 S \* 3/1988 Egner ..... D8/382
- 5,407,310 A \* 4/1995 Kassouni ..... F16B 35/06  
411/173
- D425,403 S \* 5/2000 Medina ..... D8/354
- 6,109,819 A \* 8/2000 Welch ..... A47B 13/003  
248/300
- D521,855 S \* 5/2006 Taylor ..... D8/394
- D556,015 S \* 11/2007 Muchnik ..... D8/349
- D567,074 S \* 4/2008 Gallien ..... D8/387
- D574,082 S \* 7/2008 Orthner ..... D8/387
- D762,456 S \* 8/2016 Lo ..... D8/349
- D791,578 S \* 7/2017 Royak ..... D8/371
- 11,204,050 B2 \* 12/2021 Kennedy ..... A47C 7/54
- D959,957 S \* 8/2022 Kim ..... D8/349

(Continued)

**FOREIGN PATENT DOCUMENTS**

- CN 303884483 \* 10/2016
- CN 307290724 \* 4/2022

(Continued)

*Primary Examiner* — S. Bryan Reinholdt, Jr.  
*Assistant Examiner* — Ieisha N Price  
(74) *Attorney, Agent, or Firm* — Bayramoglu Law Offices  
LLC

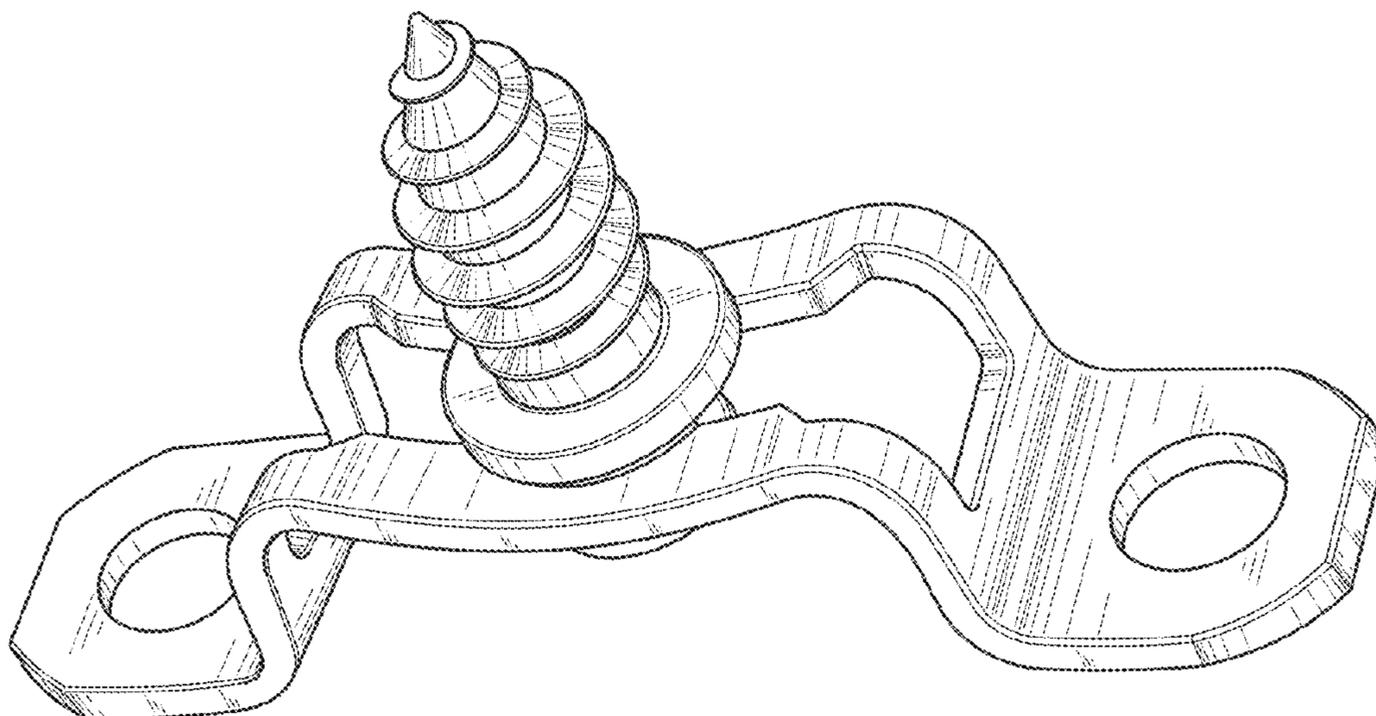
(57) **CLAIM**

The ornamental design for a connector, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a connector showing my new design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a top view thereof; and,  
FIG. 7 is a bottom view thereof.

**1 Claim, 7 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2007/0289249 A1\* 12/2007 Martel ..... E04F 15/02  
52/715  
2014/0014407 A1\* 1/2014 Krieg ..... F16G 11/06  
24/135 R

FOREIGN PATENT DOCUMENTS

GB 4019406 \* 4/2011  
JP D1125815 \* 11/2001  
JP D1629318 \* 4/2019  
SG 200376G-001 \* 8/2003

\* cited by examiner

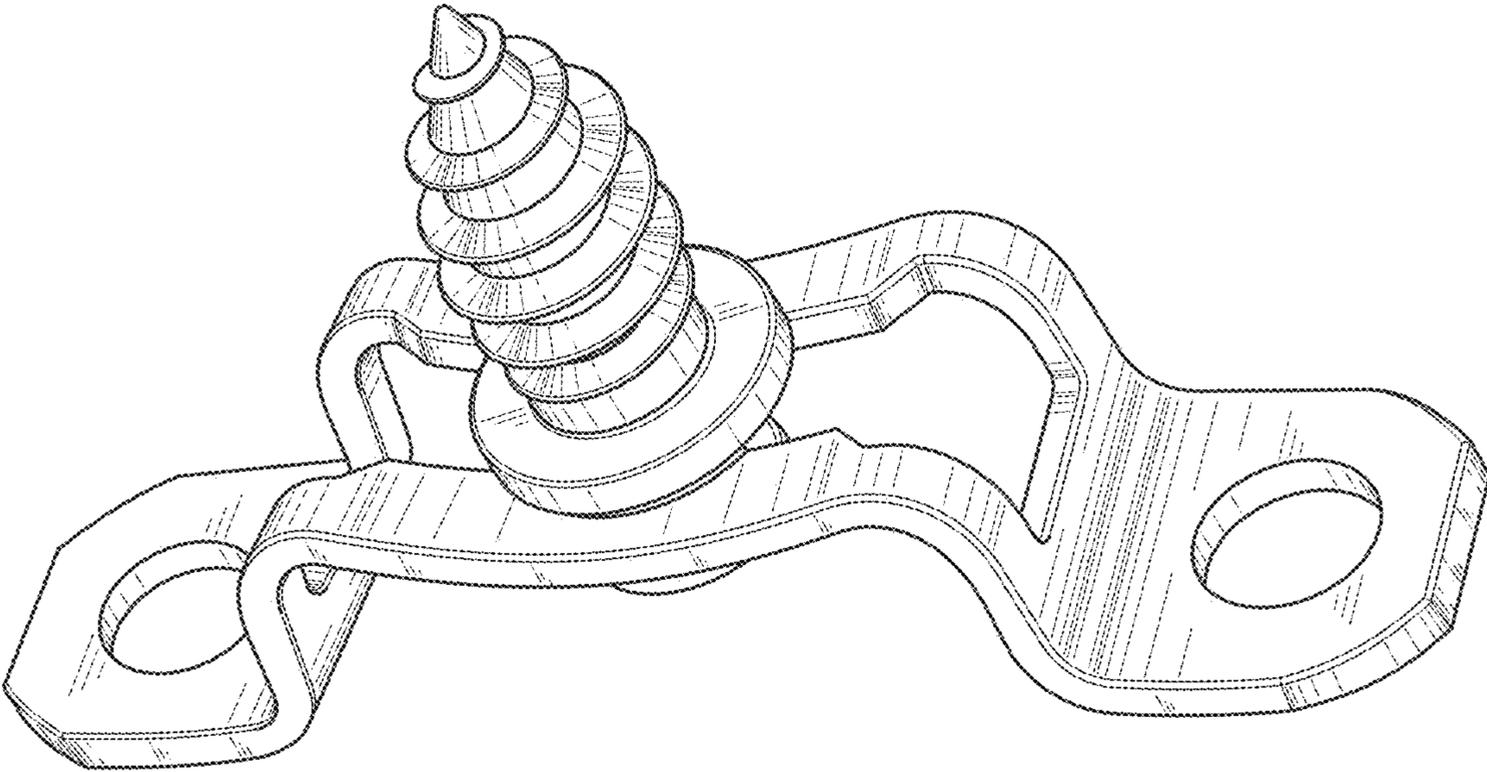


Fig. 1

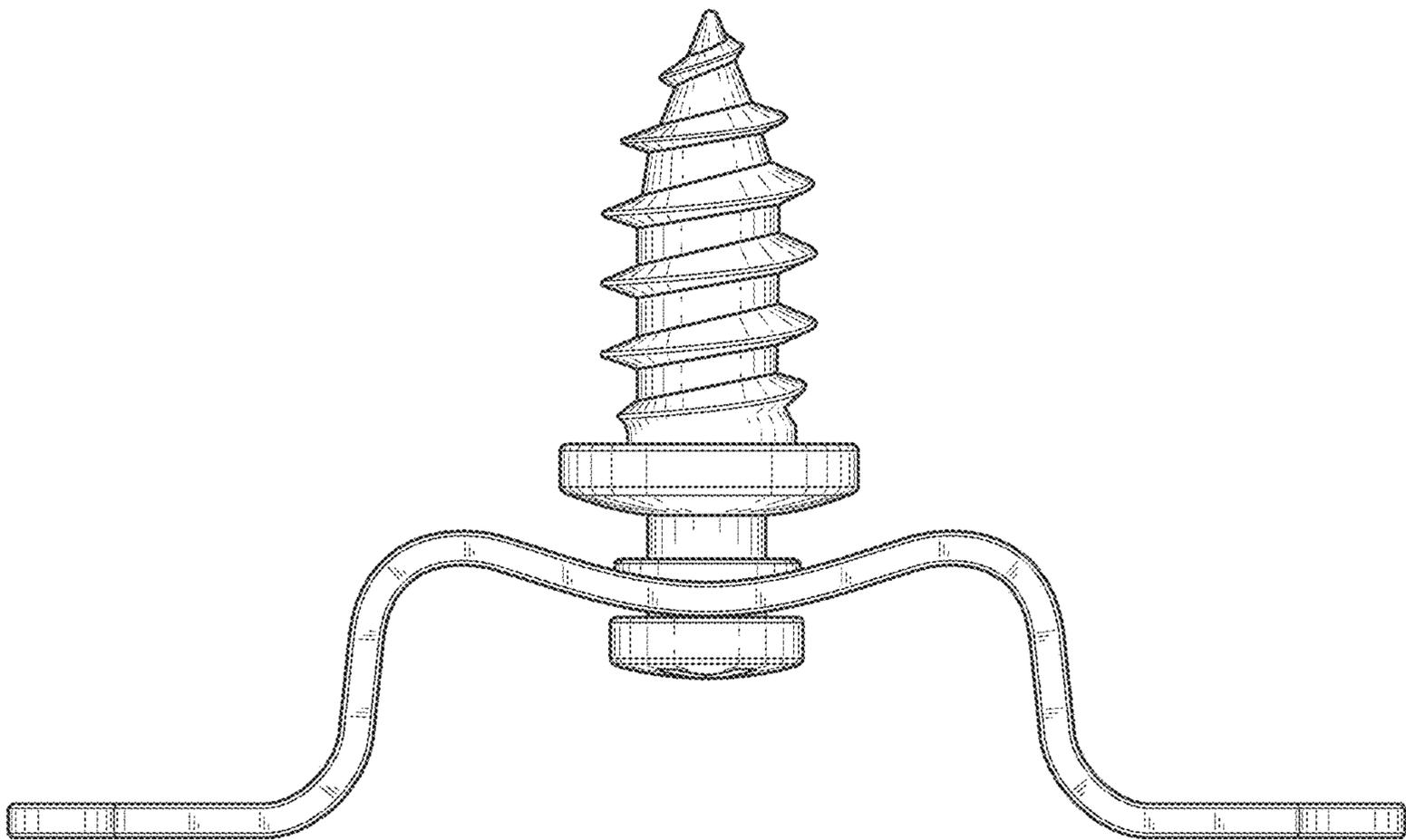


Fig. 2

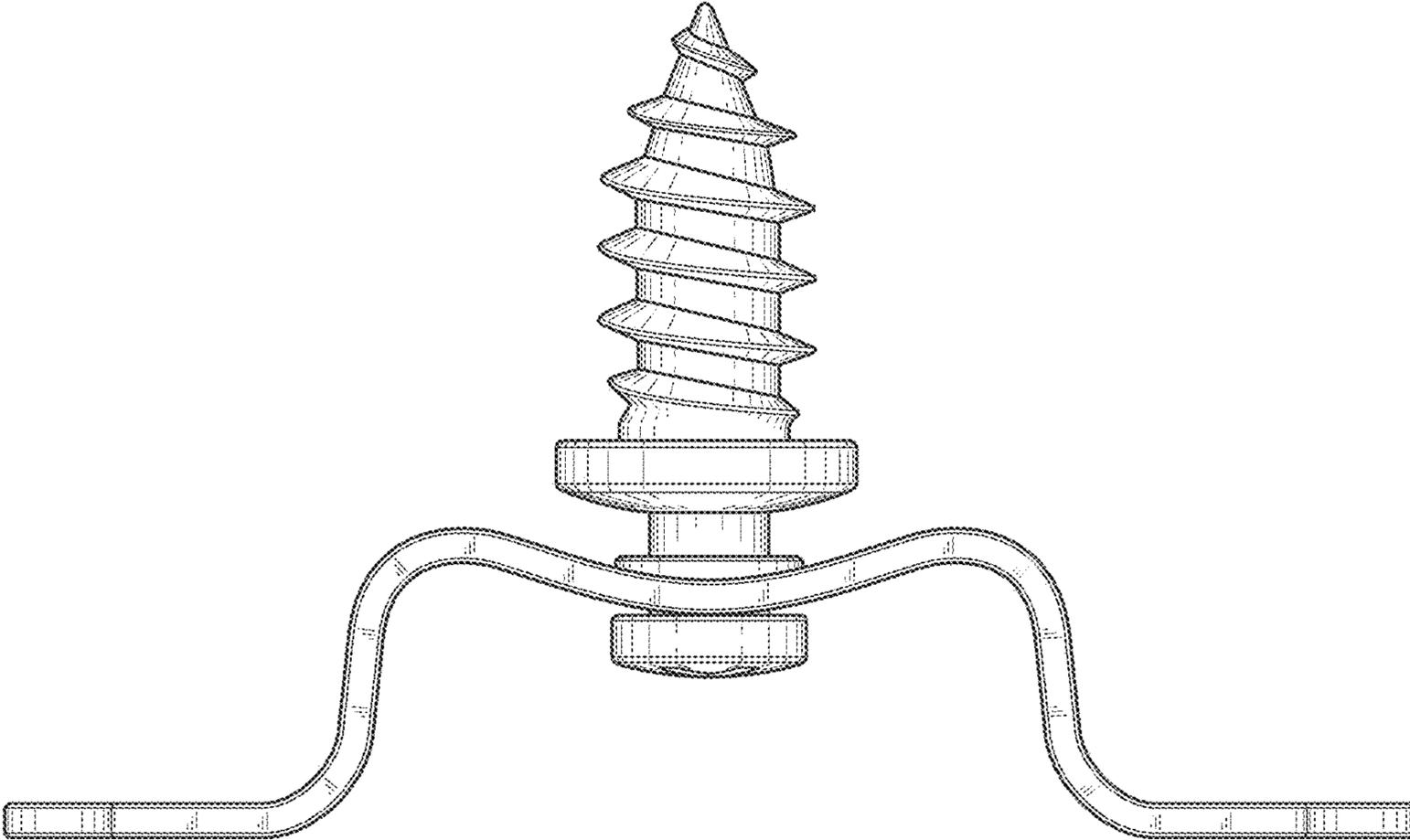


Fig. 3

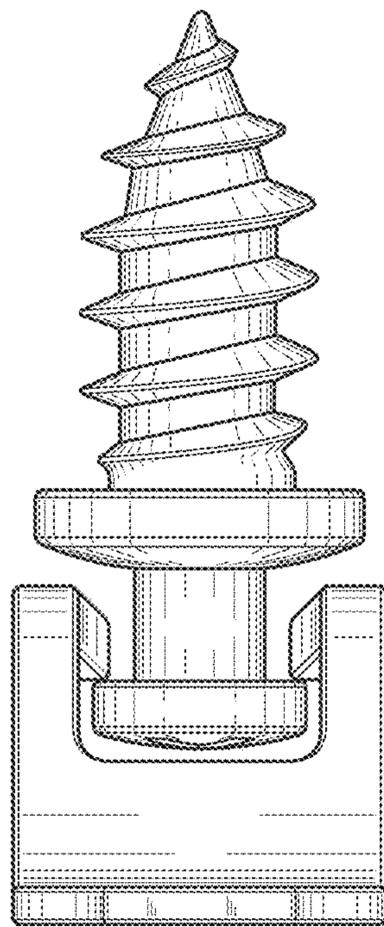


Fig. 4

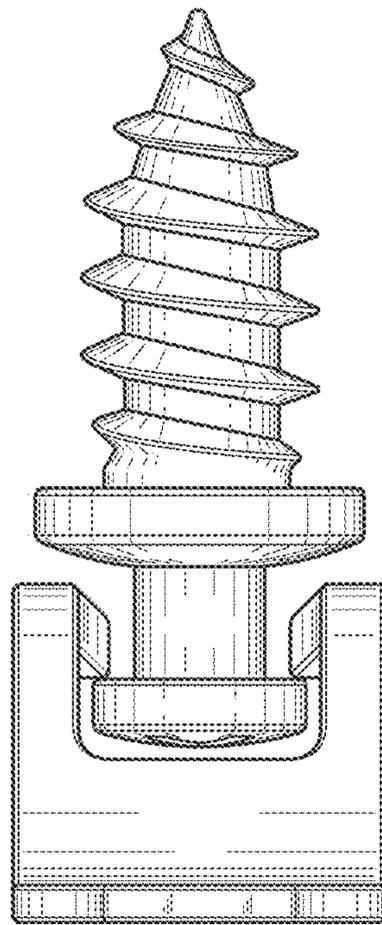


Fig. 5

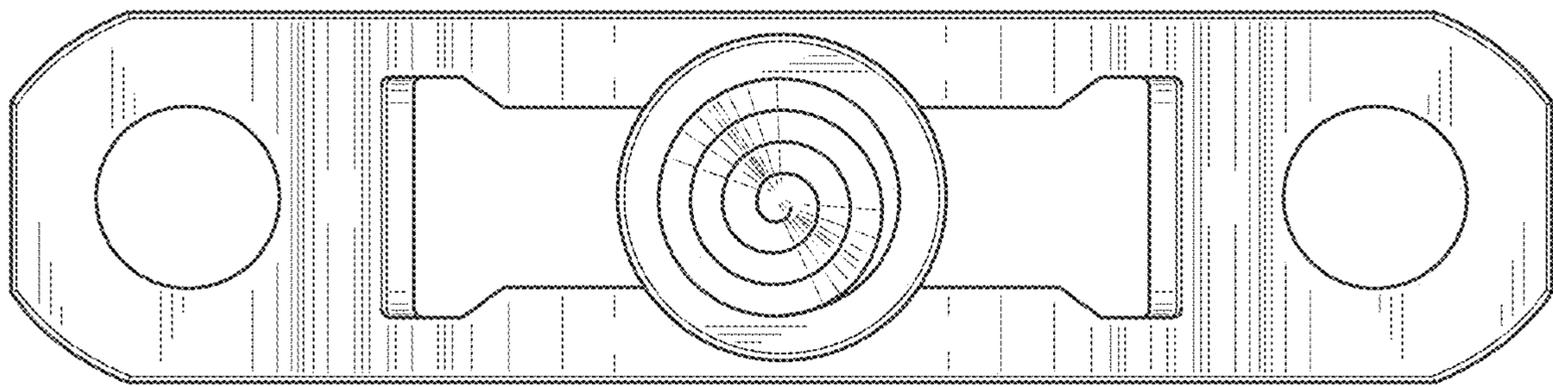


Fig. 6

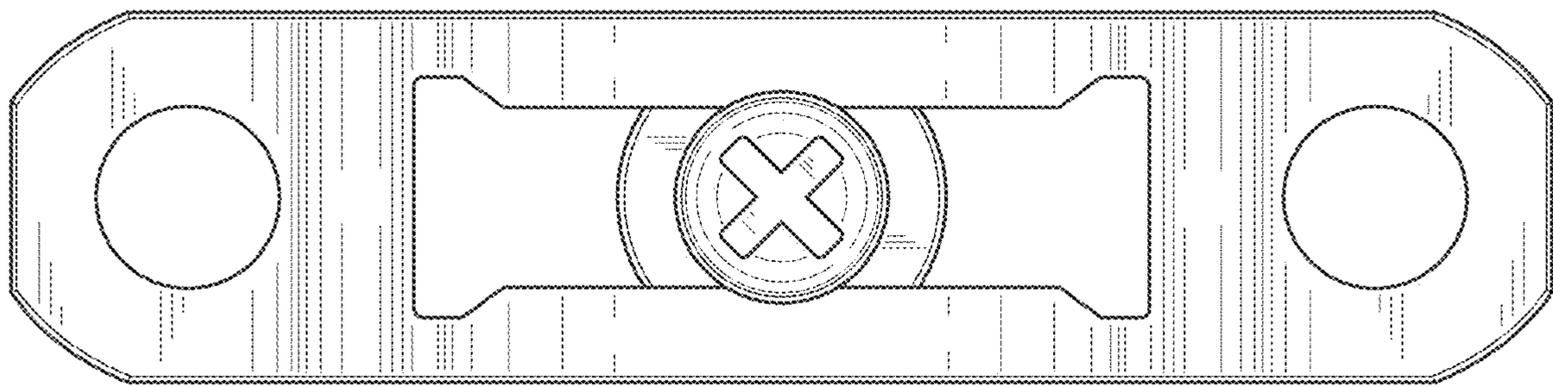


Fig. 7