



US00D790470S

(12) **United States Design Patent**
Katagiyama et al.

(10) **Patent No.:** **US D790,470 S**

(45) **Date of Patent:** **** Jun. 27, 2017**

(54) **ADAPTER FOR OPTICAL CONNECTORS**

(71) Applicant: **Japan Aviation Electronics Industry, Limited**, Tokyo (JP)

(72) Inventors: **Naoki Katagiyama**, Tokyo (JP); **Yuichi Koreeda**, Tokyo (JP)

(73) Assignee: **Japan Aviation Electronics Industry, Limited**, Tokyo (JP)

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

(21) Appl. No.: **29/549,252**

(22) Filed: **Dec. 21, 2015**

(30) **Foreign Application Priority Data**

Jul. 13, 2015 (JP) 2015-015497

(51) **LOC (10) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/133**

(58) **Field of Classification Search**
USPC D13/123, 133, 134, 137.1–137.4, 138.1,
D13/138.2, 139.1, 139.7, 144–147, 149,
D13/154–156, 173, 184, 199, 110, 118
CPC ... H01B 7/00; H01R 9/00; H01R 9/05; H01R
9/24; H01R 13/00; H01R 13/44; H01R
13/62; G02B 6/36; G02B 6/38; G02B
6/424

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D683,701 S * 6/2013 Svelnis D13/133
D709,829 S * 7/2014 McKee D13/110
D717,247 S * 11/2014 Nagasawa D13/133
D733,655 S * 7/2015 Sato D13/133
D734,266 S * 7/2015 Sato D13/133
D747,692 S * 1/2016 Katagiyama D13/154

D753,594 S * 4/2016 Katagiyama D13/133
D776,616 S * 1/2017 Katagiyama D13/133
D777,106 S * 1/2017 Katagiyama D13/133
2010/0104355 A1 * 4/2010 Sugimoto G02B 6/3897
403/292
2010/0239213 A1 * 9/2010 Katagiyama G02B 6/3825
385/94
2011/0158586 A1 * 6/2011 Katagiyama G02B 6/3825
385/55

(Continued)

FOREIGN PATENT DOCUMENTS

JP 1366116 S 8/2009
JP 1395282 S 8/2010
JP 1524474 S 5/2015

Primary Examiner — Thomas Johannes

Assistant Examiner — Shawn T Gingrich

(74) *Attorney, Agent, or Firm* — Cermak Nakajima &
McGowan LLP; Tomoko Nakajima

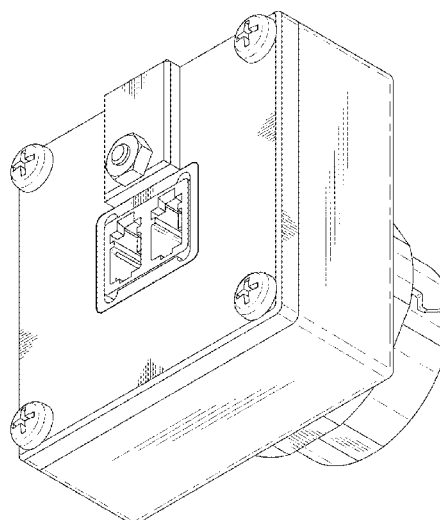
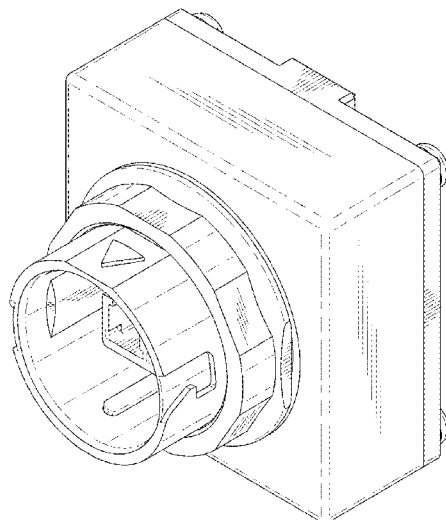
(57) **CLAIM**

The ornamental design for an adapter for optical connectors,
as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of an adapter for optical connectors showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a right side elevational view thereof;
FIG. 4 is a left side elevational view thereof;
FIG. 5 is a rear elevational view thereof; and
FIG. 6 is a bottom plan view thereof.
FIG. 7 is a front and top perspective view thereof;
FIG. 8 is a rear and bottom perspective view thereof;
FIG. 9 is a front and bottom perspective view thereof; and,
FIG. 10 is a rear and bottom perspective view thereof.
The broken line portion of the figure drawings is included to show portions of the article that form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2014/0368069 A1* 12/2014 Ren H01R 13/622
310/71

* cited by examiner

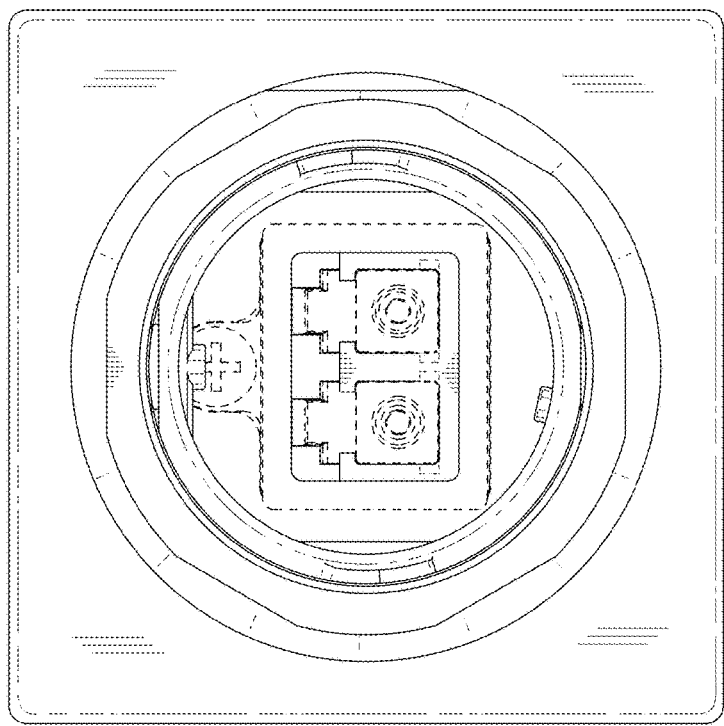


FIG.1

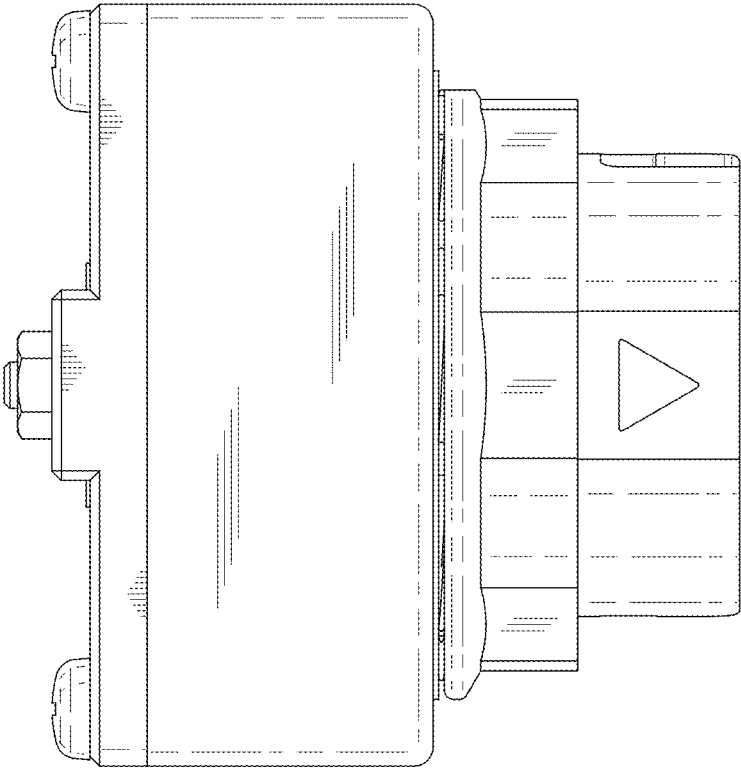


FIG.2

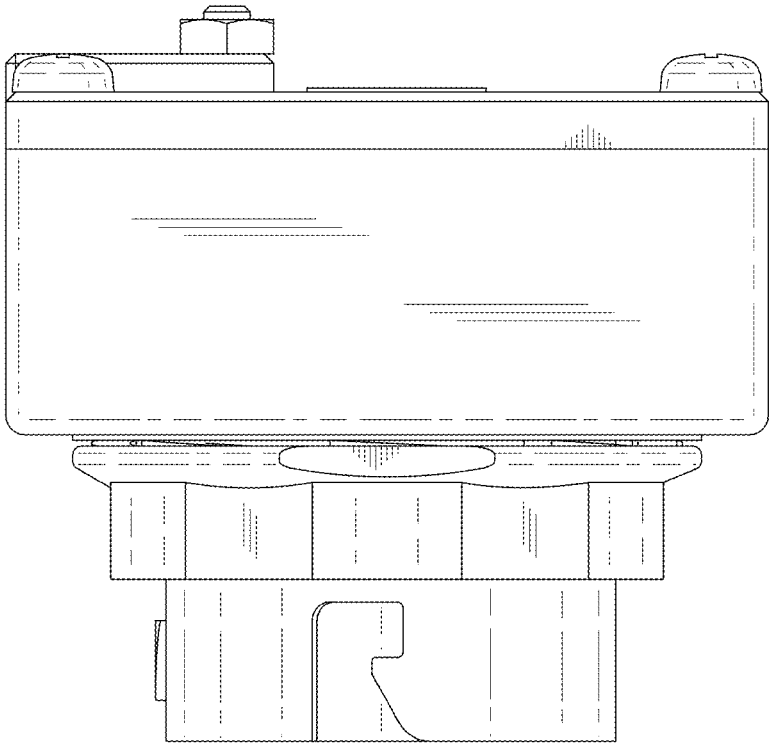


FIG.3

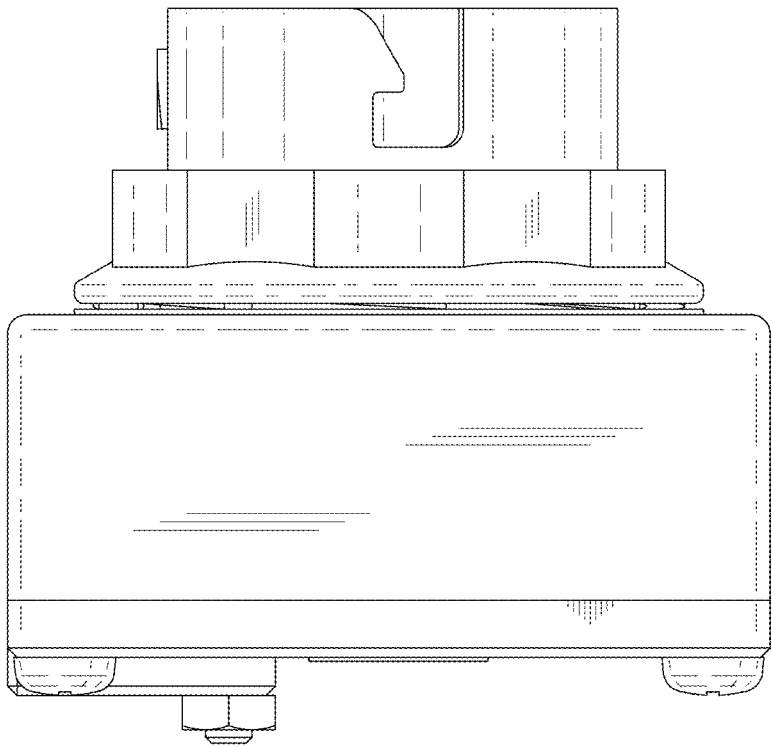


FIG.4

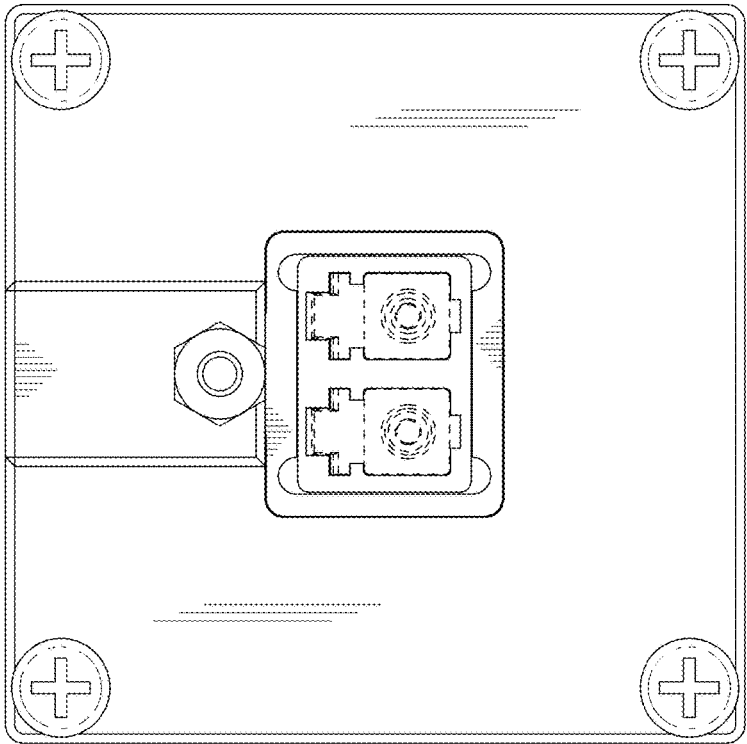


FIG.5

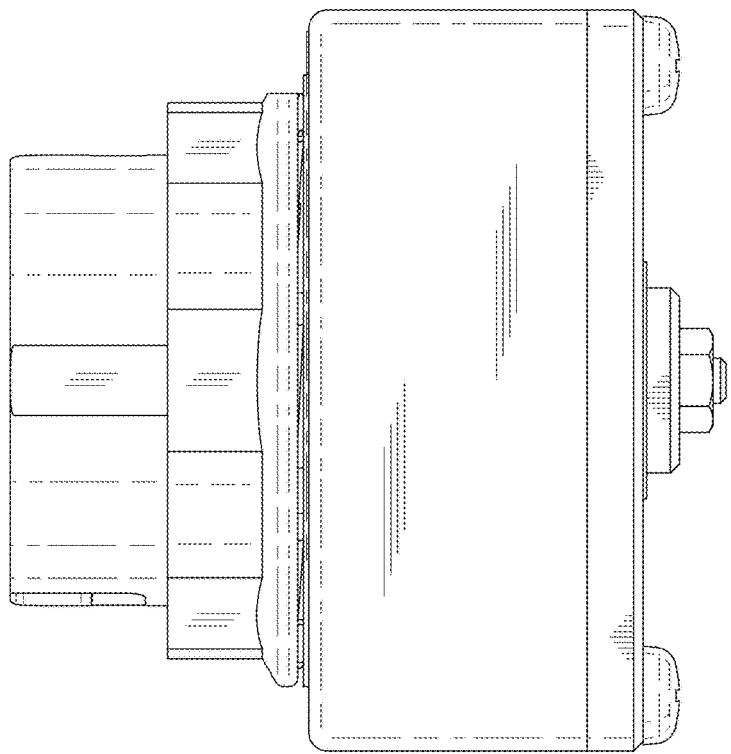


FIG.6

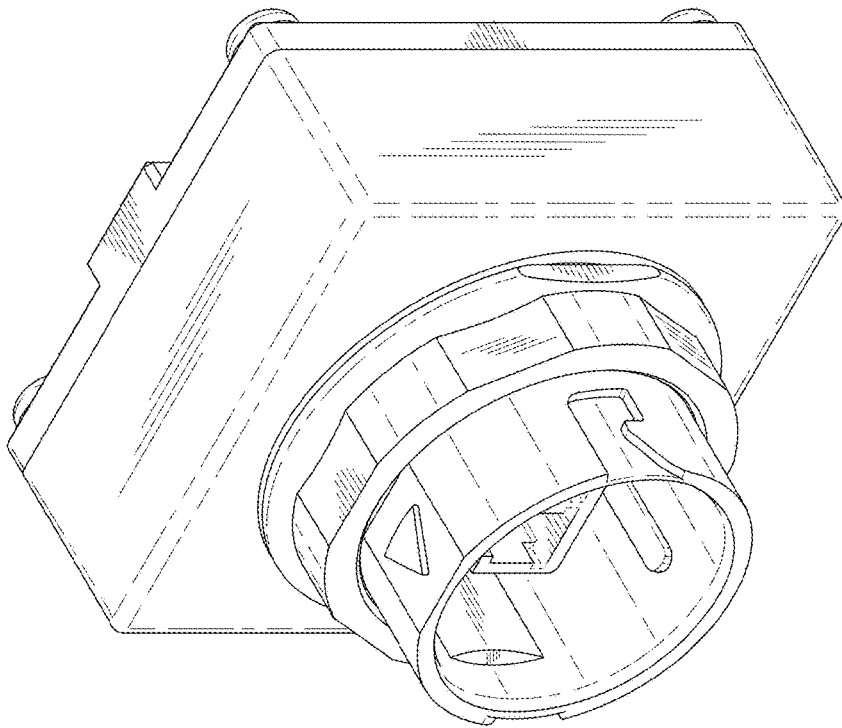


FIG. 7

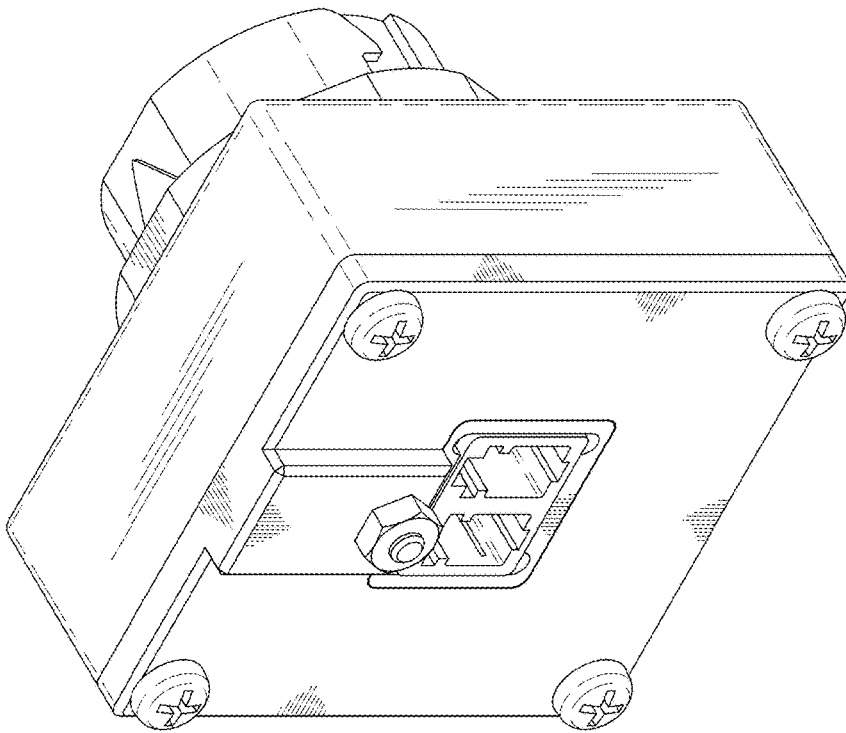


FIG. 8

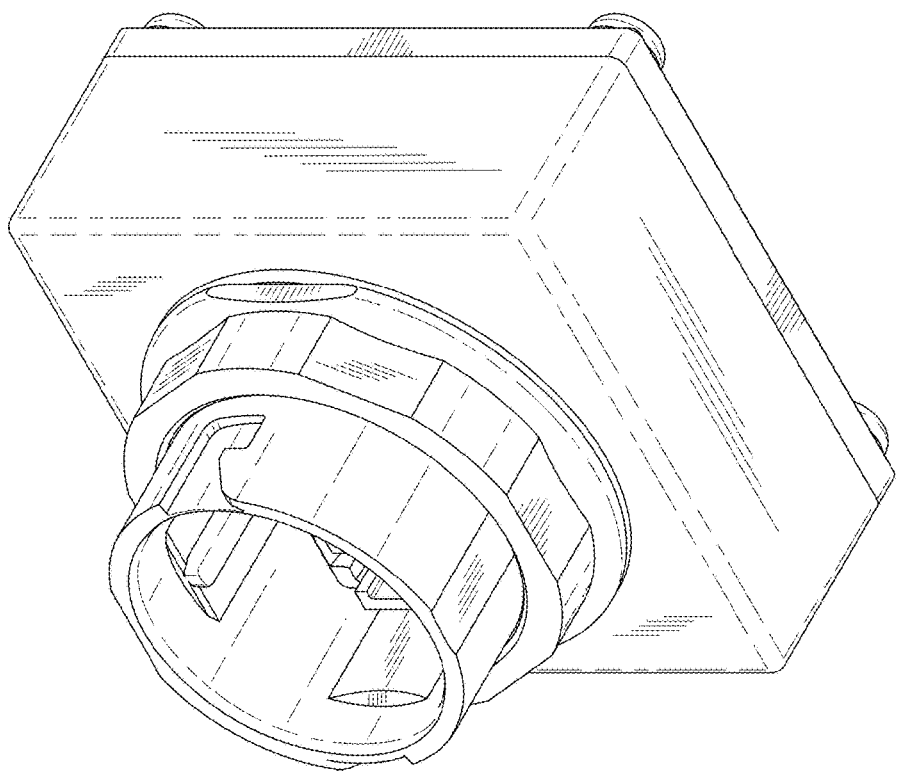


FIG. 9

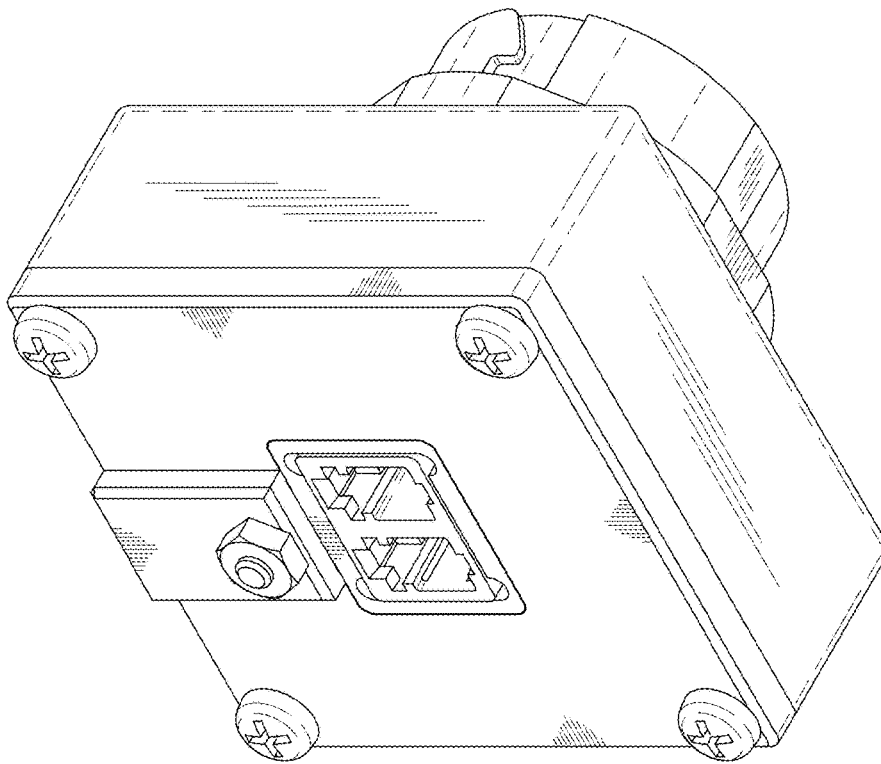


FIG.10