



US0D1089112S

(12) **United States Design Patent** (10) **Patent No.:** **US D1,089,112 S**  
**Shinmyo et al.** (45) **Date of Patent:** **\*\* Aug. 19, 2025**

(54) **CONNECTOR**

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

(72) Inventors: **Minoru Shinmyo**, Tokyo (JP); **Yuichi Uchiyama**, Tokyo (JP); **Osamu Takagi**, Tokyo (JP); **Masaki Ishiguro**, Tokyo (JP); **Junichi Miyamoto**, Tokyo (JP); **Takashi Tokunaga**, Tokyo (JP); **Tomoyuki Uchida**, Tokyo (JP); **Takuya Shiraishi**, Tokyo (JP); **Chikara Kawamura**, Tokyo (JP)

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

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

(21) Appl. No.: **29/929,453**

(22) Filed: **Feb. 22, 2024**

(30) **Foreign Application Priority Data**

Sep. 11, 2023 (JP) ..... 2023-018544 D

(51) **LOC (15) Cl.** ..... **13-03**

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

(58) **Field of Classification Search**  
USPC ... D13/133, 101, 123, 146, 147, 153, 137.1, D13/149, 139.8, 182; D14/435.1, 433  
CPC .... G02B 6/38; G02B 6/38875; G02B 6/4284; H01R 13/40; H01R 13/58; H01R 13/627; H01R 13/66; H01R 13/6335; H01R 13/6272; H01R 13/6397; H01R 13/639; H01R 13/6275; H01R 31/06; H01R 24/00; H01R 24/46; H01R 43/26  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D434,004	S	*	11/2000	Yang	.....	D13/146
D454,113	S	*	3/2002	Ikeda	.....	D13/133
D479,197	S	*	9/2003	Zhang	.....	D13/146
D508,894	S	*	8/2005	Zhao	.....	D13/133
D541,220	S	*	4/2007	Hamada	.....	D13/147
D552,550	S	*	10/2007	Lin	.....	D13/133
D573,094	S	*	7/2008	So	.....	D13/133
D625,269	S	*	10/2010	So	.....	D13/147
D626,508	S	*	11/2010	So	.....	D13/147
D643,841	S	*	8/2011	Lyford	.....	D13/133

(Continued)

*Primary Examiner* — Amber R Stiles

*Assistant Examiner* — Leah E Hoeferkamp

(74) *Attorney, Agent, or Firm* — Kreative IP Management LLC; Fuiyeong Kim

(57) **CLAIM**

The ornamental design for a connector as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a connector showing our new design;

FIG. 2 is a rear elevational view thereof;

FIG. 3 is a right side elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom plan view thereof;

FIG. 7 is a front, top, and right side perspective view thereof;

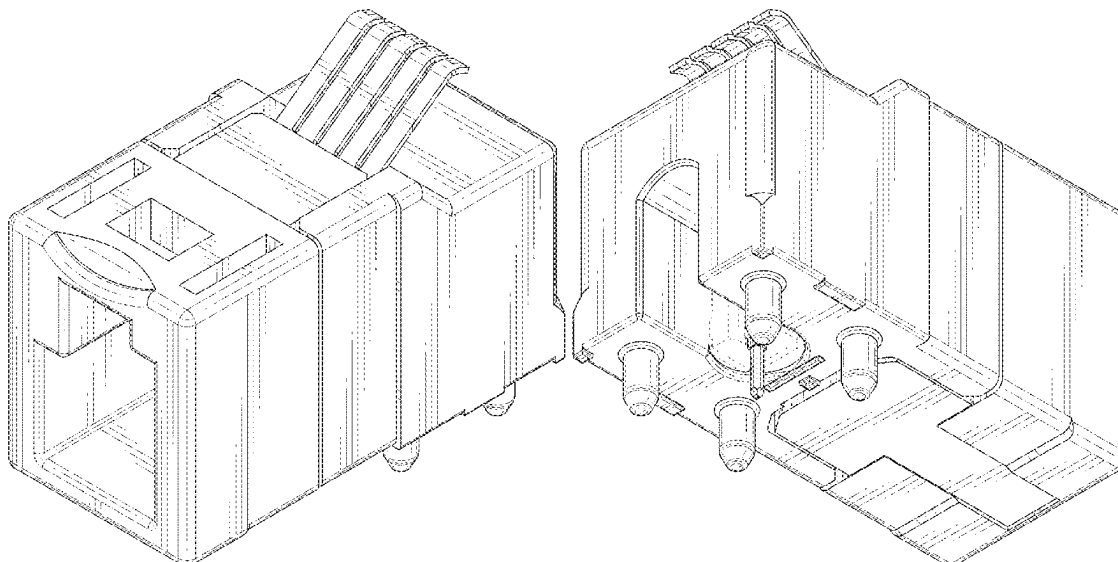
FIG. 8 is a rear, bottom, and left side perspective view thereof;

FIG. 9 is a front, right, and bottom side perspective view thereof; and,

FIG. 10 is a rear, left, and top side perspective view thereof.

The broken line showing of the connector is for the purpose of illustrating portions of the article and forms no part of the claimed design.

**1 Claim, 10 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D676,385	S *	2/2013	Gassauer .....	D13/133
D676,386	S *	2/2013	Gassauer .....	D13/133
D701,492	S *	3/2014	Miyoshi .....	D13/147
D742,322	S *	11/2015	Endo .....	D13/147
D773,998	S *	12/2016	Endo .....	D13/147
D938,359	S *	12/2021	Ito .....	D13/133
D982,518	S *	4/2023	Tada .....	D13/133
D986,831	S *	5/2023	Morishita .....	D13/147
D1,018,470	S *	3/2024	Böcker .....	D13/133
D1,032,529	S *	6/2024	Pan .....	D13/133
D1,032,533	S *	6/2024	Obata .....	D13/133
D1,033,363	S *	7/2024	Obata .....	D13/133
D1,053,147	S *	12/2024	Joshi .....	D13/147
2015/0222043	A1 *	8/2015	Yagi .....	H01R 13/6456 439/625
2016/0276780	A1 *	9/2016	Tanaka .....	H01R 13/6471
2018/0277990	A1 *	9/2018	Ho .....	H01R 12/58

\* cited by examiner

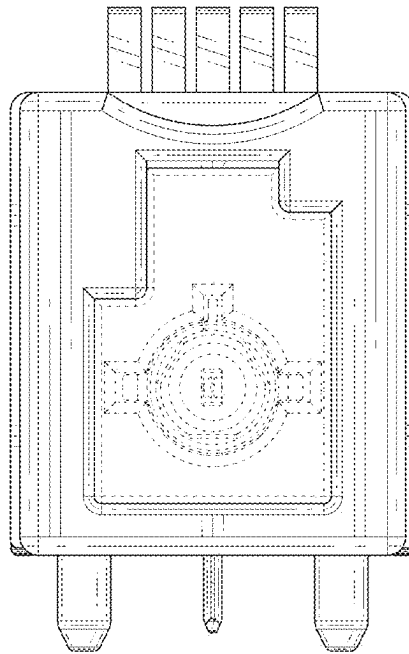


FIG. 1

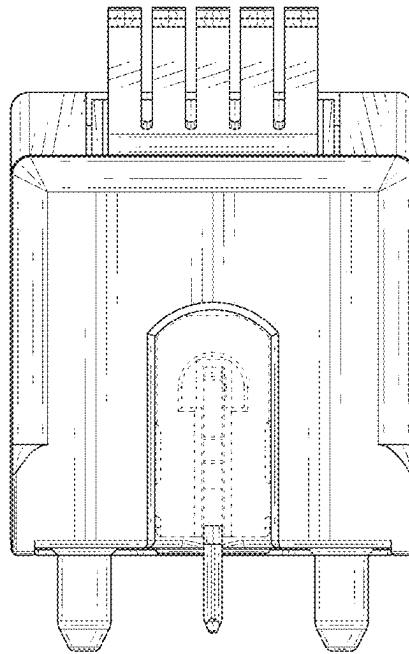


FIG. 2

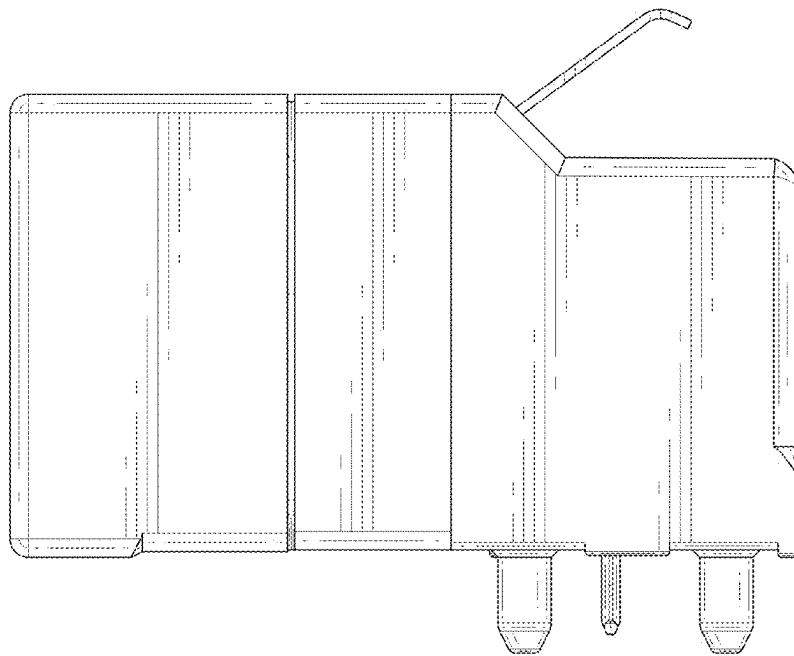


FIG. 3

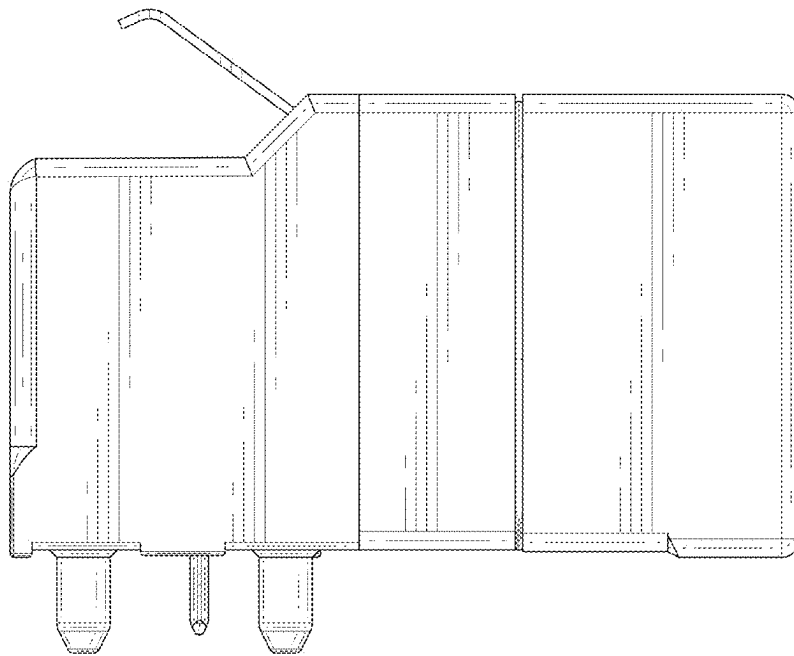


FIG. 4

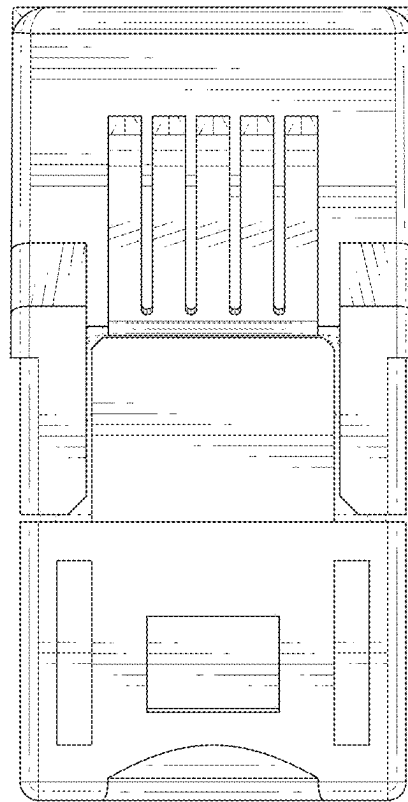


FIG. 5

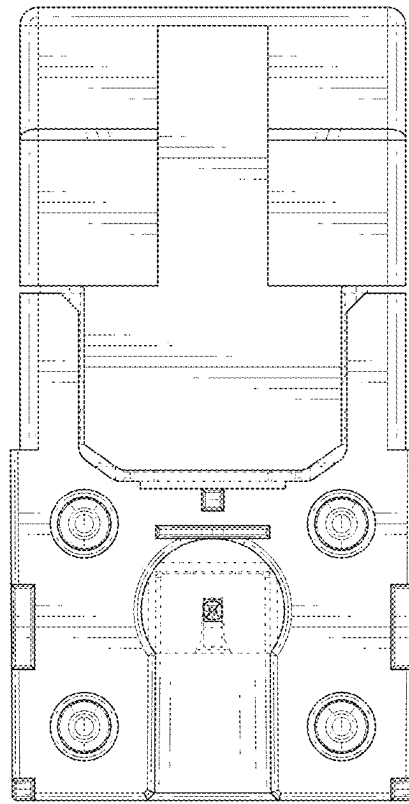


FIG. 6



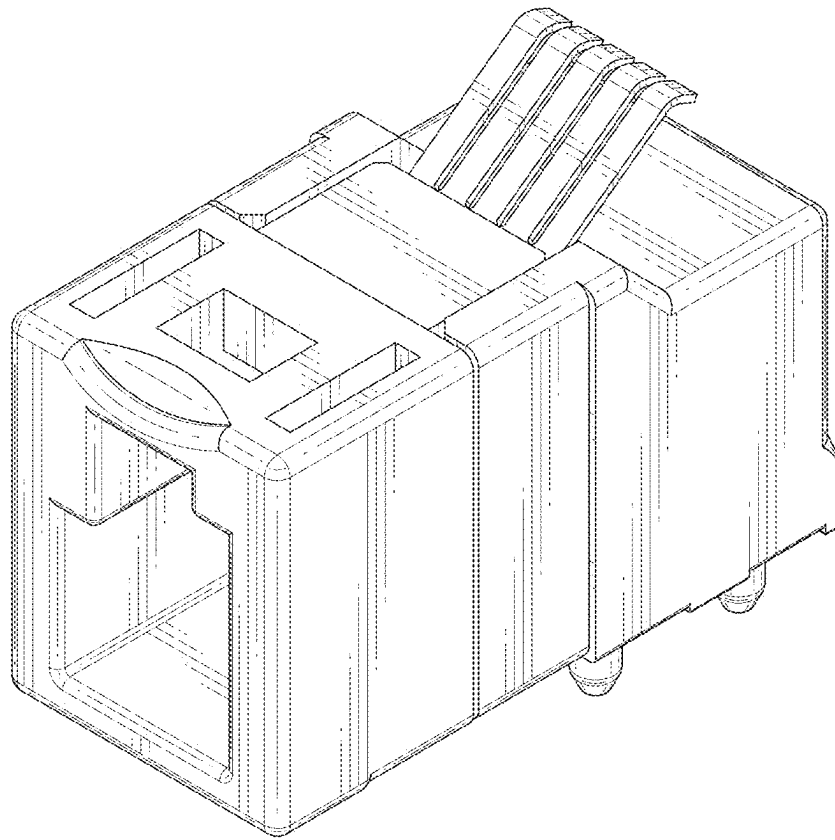


FIG. 7

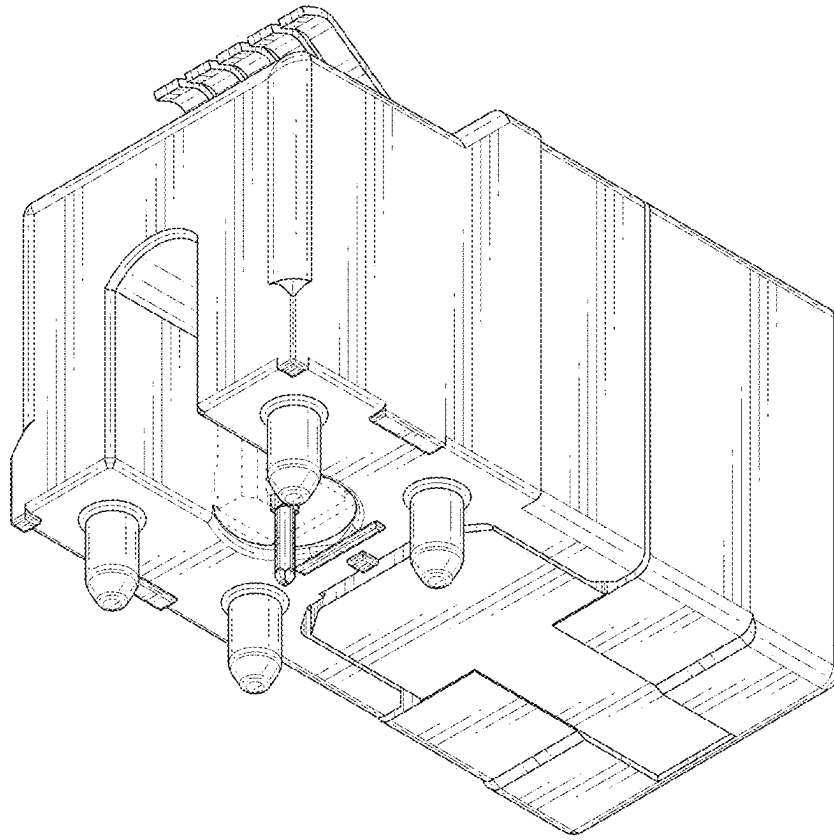


FIG. 8

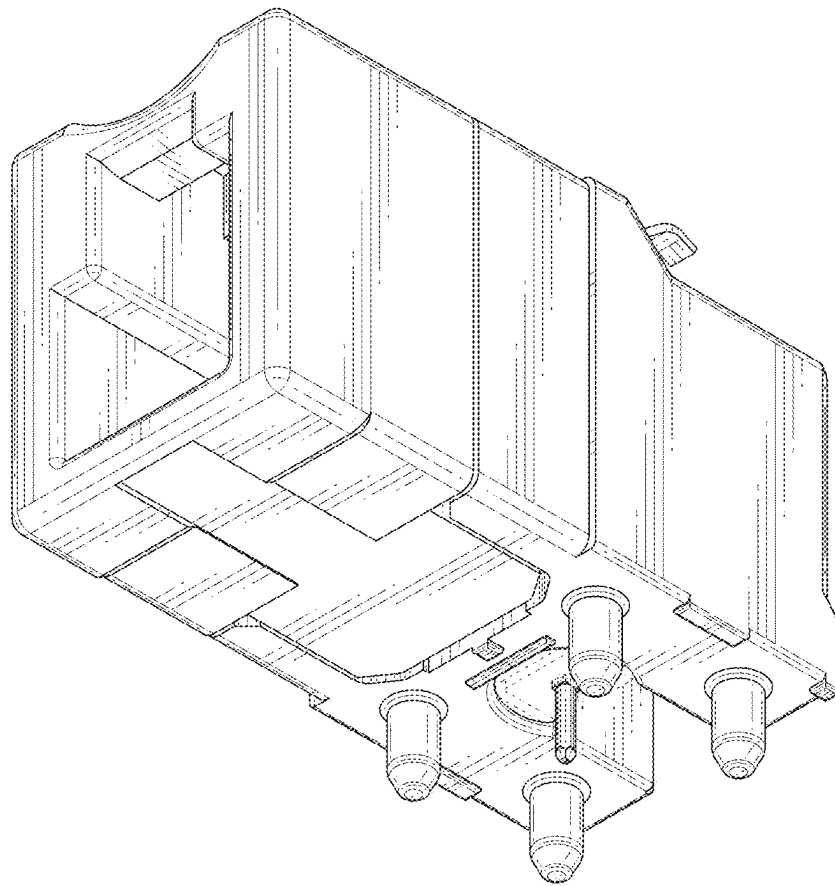


FIG. 9

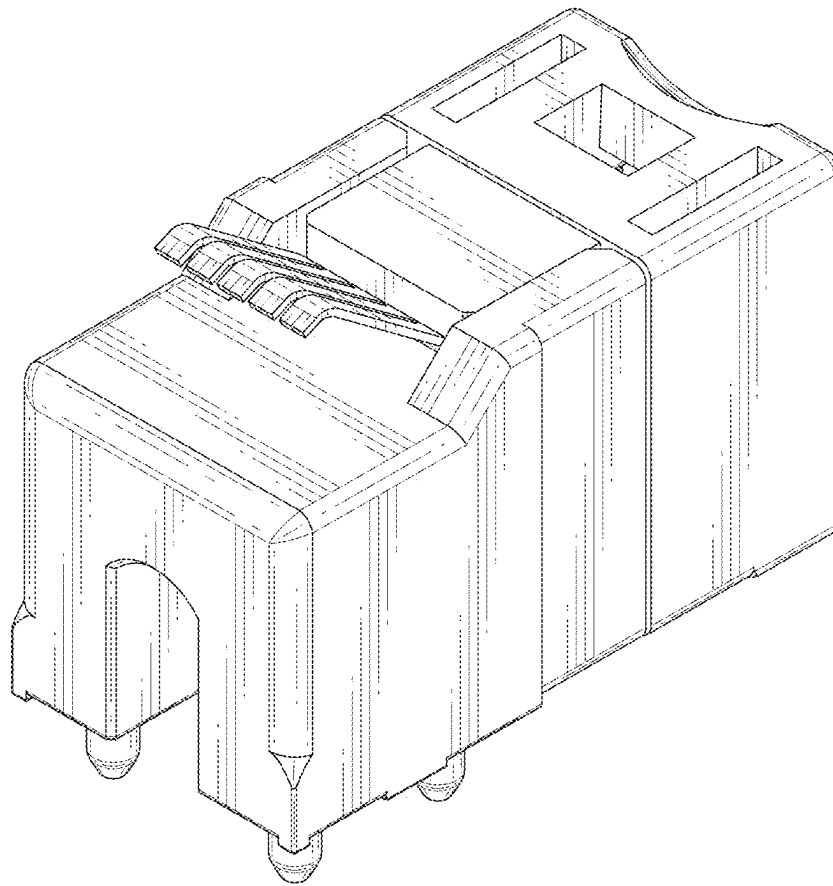


FIG. 10