

US0D10891168

(12) United States Design Patent (10) Patent No.:

Cheng et al.

(10) Patent No.: US D1,089,116 S

(45) Date of Patent: ** Aug. 19, 2025

(54) CHARGING CONNECTOR

- (71) Applicant: Delta Electronics, Inc., Taoyuan (TW)
- (72) Inventors: Ching-Yu Cheng, Taoyuan (TW);

Ko-Chia Chen, Taoyuan (TW); Mu-Huan Li, Taoyuan (TW)

- (73) Assignee: **Delta Electronics, Inc.**, Taoyuan (TW)
- (**) Term: 15 Years
- (21) Appl. No.: 29/901,083
- (22) Filed: Aug. 29, 2023
- (52) U.S. Cl.

USPC **D13/138.1**

(58) Field of Classification Search

CPC H01M 50/103; H02J 7/02; H01R 13/5213 See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D768,082	\mathbf{S}		10/2016	Chuang
D806,038	S	*	12/2017	Zhang D13/147
9,948,024	В1	*	4/2018	Zhang H01R 13/5213
D928,714	S	*	8/2021	Van-Der-Veer D13/146
D949,797	S	*	4/2022	Stamm D13/146
D986,827	S	*	5/2023	Schneider D13/138.2
D1,010,578	S	*	1/2024	Wallensteiner D13/107
D1,010,583	S	*	1/2024	Wallensteiner D13/139.7
D1,010,584	\mathbf{S}	*	1/2024	Wallensteiner D13/139.7
D1,018,469	\mathbf{S}	*	3/2024	Maiwald D13/133
D1,035,580	\mathbf{S}	*	7/2024	Loercher D13/133
D1,036,386	\mathbf{S}	*	7/2024	Loercher D13/133
D1,037,161	\mathbf{S}	*	7/2024	Loercher D13/133
D1,040,110	S	*	8/2024	Yang D13/133
D1,044,726	\mathbf{S}	*	10/2024	Loercher D13/133

D1,044,736	S	*	10/2024	Mai	D13/146
D1,046,773	\mathbf{S}	*	10/2024	Yang	D13/133
D1 060 266	S	*	2/2025	Payne	D13/107

FOREIGN PATENT DOCUMENTS

CN	307125242 S	2/2022
CN	307608760 S	10/2022
CN	307608761 S	10/2022
CN	307768790 S	1/2023
CN	308020196 S	5/2023
GB	6244965	1/2022
JP	D1740445 S	3/2023

^{*} cited by examiner

Primary Examiner — Rhea Shields

(74) Attorney, Agent, or Firm — KIRTON McCONKIE; Evan R. Witt

(57) CLAIM

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

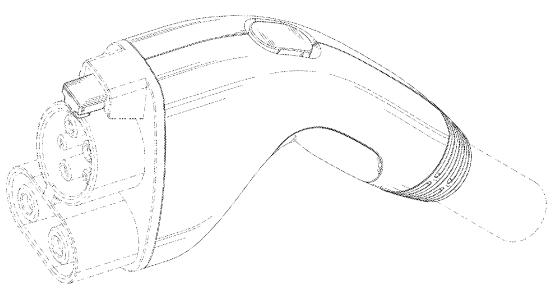
DESCRIPTION

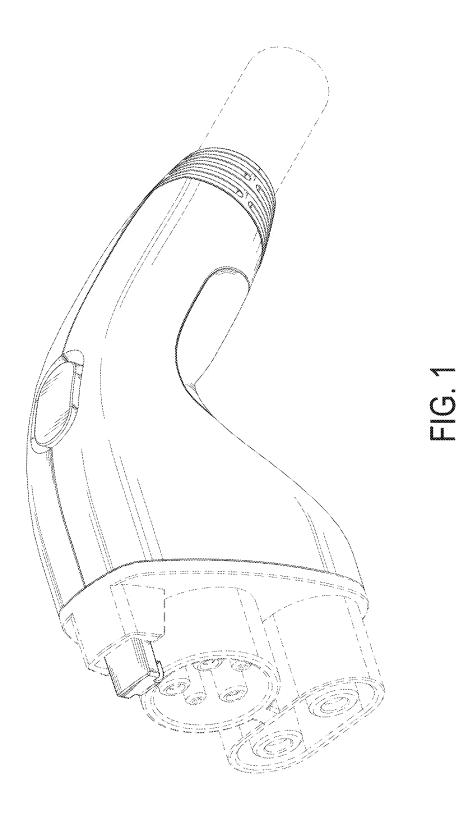
- FIG. 1 is a perspective view of a charging connector showing our new design;
- FIG. 2 is another perspective view thereof;
- FIG. 3 is another perspective view thereof;
- FIG. 4 is a front elevation view thereof;
- FIG. 5 is a rear elevation view thereof;
- FIG. 6 is a left side elevation view thereof;
- FIG. 7 is a right side elevation view thereof;
- FIG. 8 is a top plan view thereof; and,
- FIG. 9 is a bottom plan view thereof.

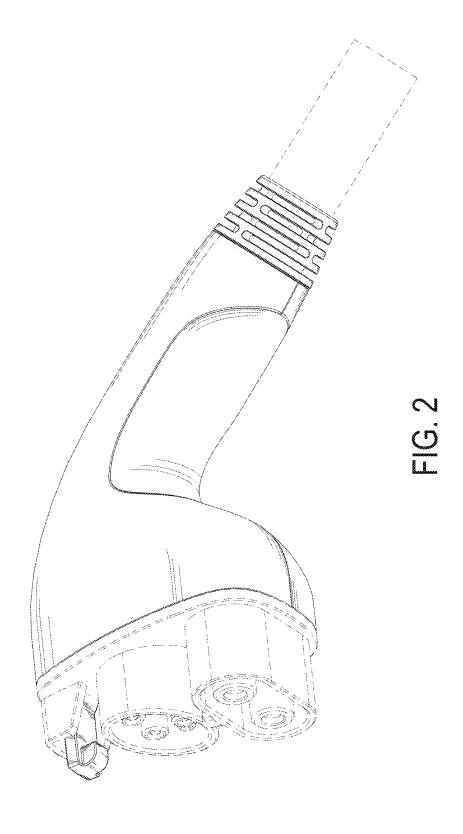
The broken lines are for the purpose of illustrating portions of the charging connector and form no part of the claimed design.

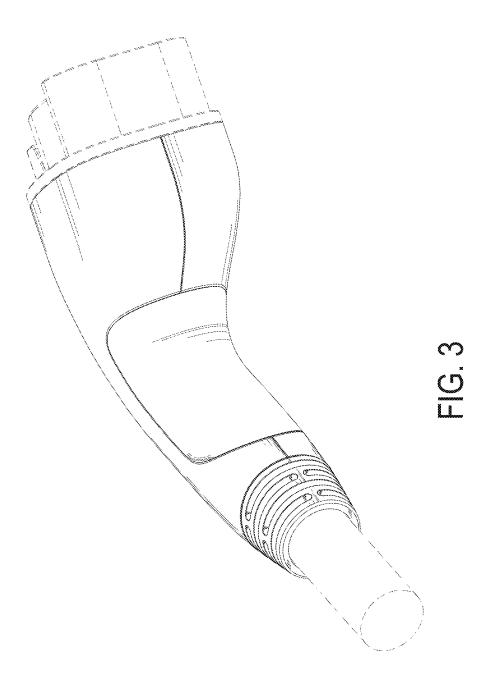
The dash-dot-dash lines depict boundaries between claimed portions and unclaimed portions of the charging connector and form no part of the claimed design.

1 Claim, 9 Drawing Sheets



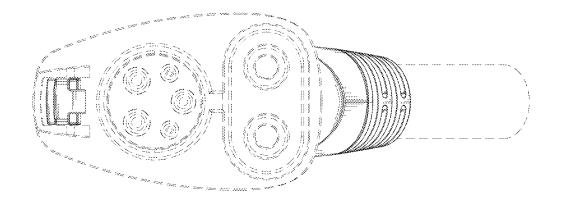




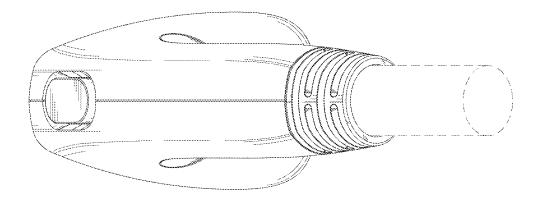


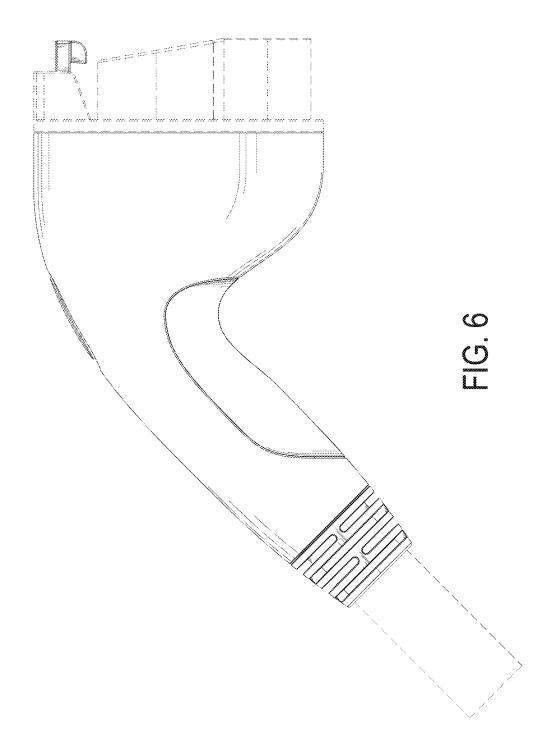
 4

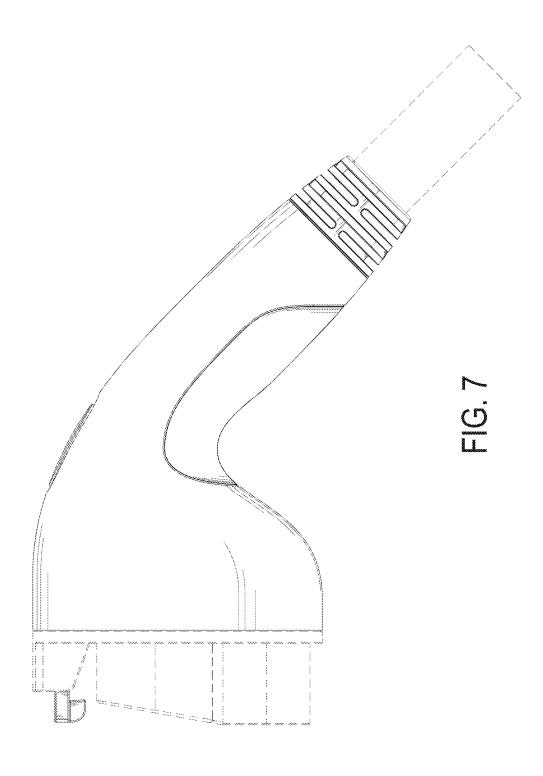
 4



Aug. 19, 2025







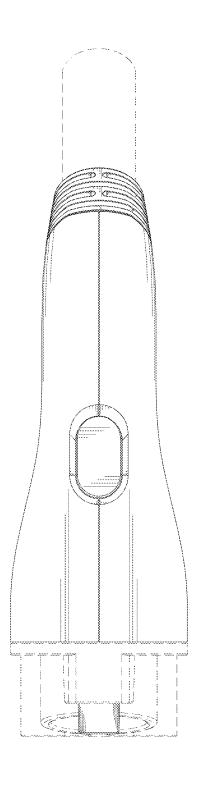


FIG. 8

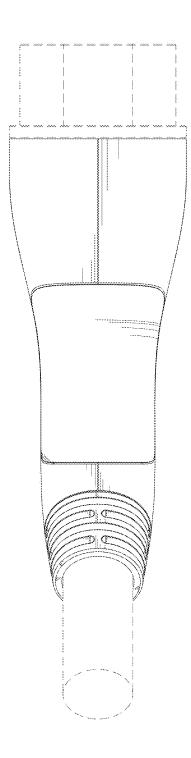


FIG. 9