



US0D1046783S

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

(10) **Patent No.:** **US D1,046,783 S**

(45) **Date of Patent:** **** Oct. 15, 2024**

(54) **ELECTRICAL VEHICLE CHARGING CONNECTOR**

(71) Applicant: **GoPlug inc.**, Fremont, CA (US)

(72) Inventors: **Brent Mackenzie**, Littleton, CO (US);
Donald J. Christian, Fremont, CA (US)

(73) Assignee: **GoPlug Inc.**, Fremont, CA (US)

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

(21) Appl. No.: **29/821,406**

(22) Filed: **Dec. 29, 2021**

(51) **LOC (14) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/146**

(58) **Field of Classification Search**
USPC D13/133, 146, 147, 144, 108, 110, 107,
D13/118, 184, 199; D10/80
CPC H01H 13/52; H01H 13/70; H01H 13/665;
H01H 13/6675; H01H 13/6395; H01H
13/629; H01H 31/065; B60L 53/16; B60L
11/1809; B60L 11/1861; H01R 13/52;
H01R 13/70; H01R 13/665; H01R
13/6675; H01R 13/6395; H01R 13/629;
H01R 31/065; H02J 2001/008; H02J
3/32; H02J 3/008; H02J 7/0013; H02J
7/0054; H02J 7/00; B60R 16/03
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D335,662 S *	5/1993	Shepard	.....	D14/427
D458,226 S *	6/2002	Chin	.....	D13/145
D471,156 S *	3/2003	Sass	.....	D13/133
D491,530 S *	6/2004	Yang	.....	D13/147
D533,503 S *	12/2006	Ashida	.....	D13/133
D636,334 S	4/2011	Kato et al.		
8,016,607 B2	9/2011	Brown		

D655,242 S	3/2012	Holthusen		
D666,152 S	8/2012	Riddle et al.		
D667,378 S	9/2012	Yamamoto		
D667,379 S *	9/2012	Fukushima	.....	D13/133
D669,033 S *	10/2012	Senk	.....	D13/133

(Continued)

OTHER PUBLICATIONS

GoPlug Pro 40 Amp Smart EVSE, available in Amazon.com, date first available Mar. 12, 2020 [online], [site visited Jul. 11, 2023], Available from the internet URL: https://www.amazon.com/GoPlug-Pro-Amp-Smart-EVSE/dp/B085VN8XBH?ref_ast_sto_dp (Year: 2020).*

(Continued)

Primary Examiner — Rosemary K Tarcza
Assistant Examiner — Leah E Hoeferkamp
(74) *Attorney, Agent, or Firm* — Robert Moll

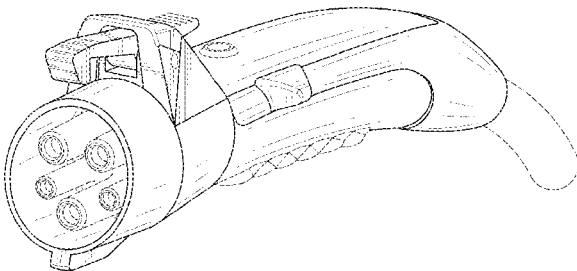
(57) **CLAIM**

The ornamental design for an electrical vehicle charging connector as shown and described.

DESCRIPTION

FIG. 1 is a front left perspective view of an electrical vehicle charging connector showing our new design, where in a front right perspective view is a mirror image thereof; FIG. 2 is rear right perspective view thereof, with a rear left perspective view being a mirror image thereof. FIG. 3 is top plan view thereof. FIG. 4 is a left side elevation view thereof, wherein a right side elevation view is a mirror image thereof. FIG. 5 is a bottom plan view thereof. FIG. 6 is a rear elevation view thereof; and, FIG. 7 is a front elevation view thereof. The features shown in broken lines in the drawing depict portions of the design that form no part of the claimed design.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D677,632 S * 3/2013 Riddle D13/133
 D694,188 S 11/2013 Ferguson et al.
 D700,143 S * 2/2014 Ichio D13/133
 D707,179 S * 6/2014 Smith D13/146
 8,834,202 B2 9/2014 Kwasny et al.
 D724,977 S * 3/2015 Browning D10/80
 D768,082 S * 10/2016 Chuang D13/146
 9,574,882 B2 * 2/2017 Schilling G01C 21/3688
 D785,570 S * 5/2017 Fischer D13/138.1
 D806,038 S * 12/2017 Zhang D13/147
 9,941,633 B2 * 4/2018 Simonazzi H01R 13/6272
 D842,803 S * 3/2019 Nishizawa D13/108
 D856,178 S * 8/2019 Hou D13/133
 D861,607 S 10/2019 Matthews et al.
 D865,639 S * 11/2019 Adams, III D12/400
 D883,199 S 5/2020 Santander et al.
 D908,090 S * 1/2021 Link D13/133
 D913,973 S * 3/2021 Georgiades D13/156
 D913,974 S * 3/2021 Georgiades D13/156
 D928,087 S * 8/2021 Wang D13/118
 D929,944 S 9/2021 Martin et al.
 D942,289 S * 2/2022 Shen D10/78
 D951,948 S * 5/2022 Shen D10/75
 D951,949 S * 5/2022 Shen D10/75
 D951,950 S * 5/2022 Shen D10/75
 D951,951 S * 5/2022 Shen D10/75
 D969,082 S * 11/2022 Tang D13/133
 D973,024 S * 12/2022 Hu D13/133
 D975,559 S * 1/2023 Gao D13/133
 D1,002,543 S * 10/2023 Yang D13/146
 D1,010,578 S * 1/2024 Wallensteiner D13/107
 D1,010,583 S * 1/2024 Wallensteiner D13/139.7
 D1,010,584 S * 1/2024 Wallensteiner D13/139.7
 2011/0034053 A1 2/2011 Matsumoto et al.

2011/0097920 A1 4/2011 Amit et al.
 2011/0145141 A1 6/2011 Blain
 2012/0171900 A1 * 7/2012 Sebald H01R 13/5227
 29/874
 2014/0134888 A1 * 5/2014 Soubh H01R 13/6658
 29/854
 2016/0226189 A1 * 8/2016 Simonazzi H01R 13/6275
 2017/0040721 A1 * 2/2017 Tsai H01R 13/502

OTHER PUBLICATIONS

Mustart Level 2 Portable EV Charger, available in Amazon.com, date first available Nov. 13, 2017 [online], [site visited Jul. 11, 2023], Available from the internet URL: <https://www.amazon.com/dp/B07JNMZ13P/> (Year: 2017).*

Primecomtech Primecom. Tech Level 2 Electric Vehicle (EV) Charger, available in Amazon.com, date first available Dec. 16, 2020 [online], [site visited Jul. 11, 2023], Available from the internet URL: <https://www.amazon.com/dp/B08QTSZ1FN/> (Year: 2020).*

Inteset 21ft 40amp J1772 EV Extension Cord, available in Amazon.com, date first available Jan. 28, 2020 [online], [site visited Jul. 11, 2023], Available from the internet URL: <https://www.amazon.com/Inteset-J-1772-Extension-Cord-Amp/dp/B0848VFZF8/> (Year: 2020).*

BMW Lower Seat (Jan. 25, 2022).

Car Vacuum Cleaner Wet Dry (Jan. 25, 2022).

Car Vacuum Cleaner Illumination Light (Jan. 25, 2022).

SpaceX Next Starship (Jan. 25, 2022).

Benchmark Rough Sketch Cleanup (Jan. 25, 2022).

Electric Hair Trimmer (Jan. 25, 2022).

Portable Tattoo Mole Removal Pen (Jan. 25, 2022).

Banana Shape Vibrator (Jan. 25, 2022).

Oppedahl, Ant-like Persistence—Tesla Charging Plugs (2024).

Wikipedia, Northern American Charging Standard (2024).

* cited by examiner

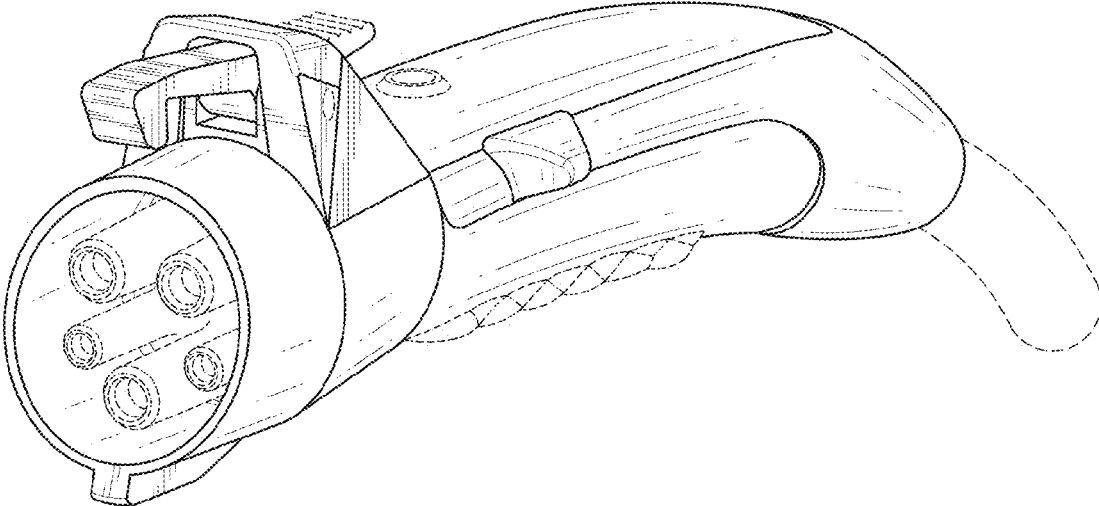


FIG. 1

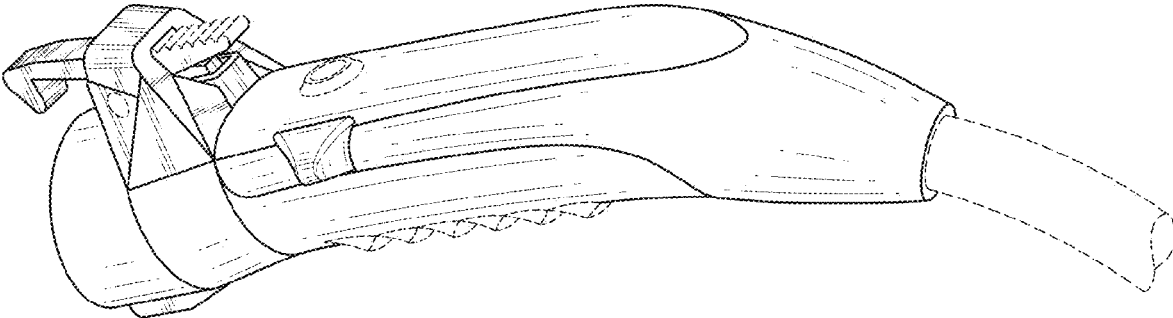


FIG. 2

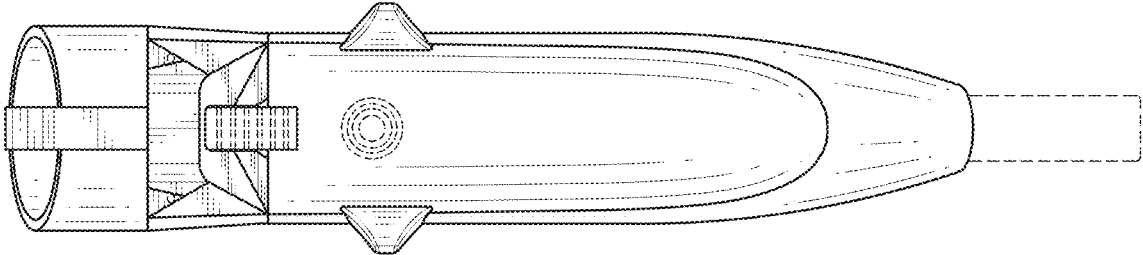


FIG. 3

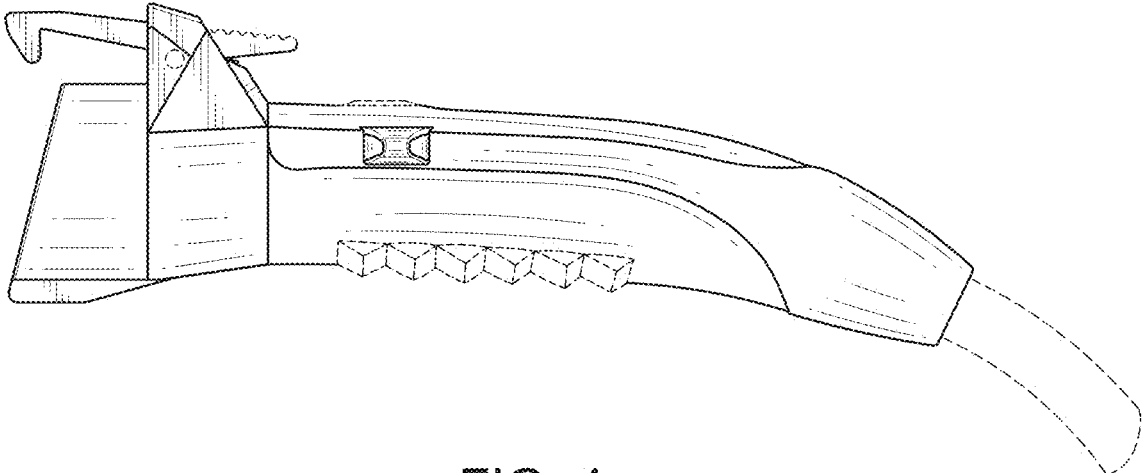


FIG. 4

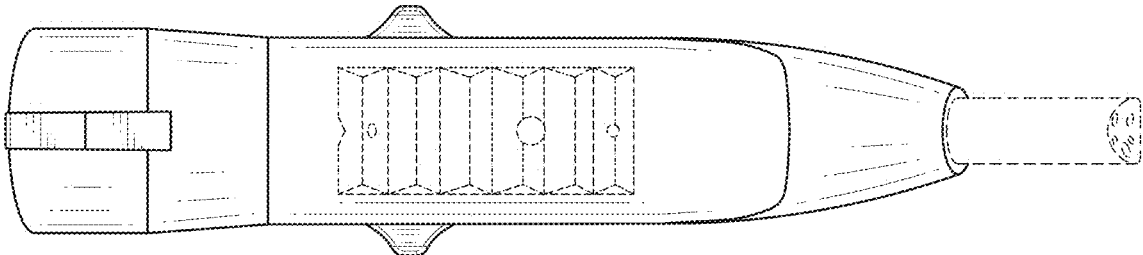


FIG. 5

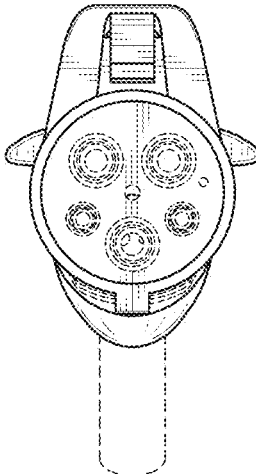


FIG. 6

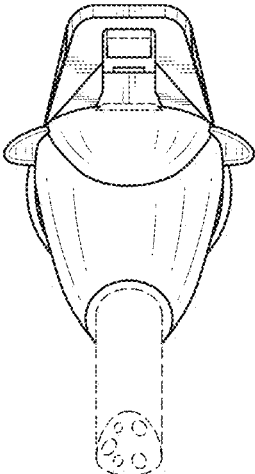


FIG. 7