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

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(54) **COIL COMPONENT**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (13) Cl.** ..... **13-02**

(52) **U.S. Cl.**

USPC ..... **D13/117**

(58) **Field of Classification Search**

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CPC ..... H01F 27/00; H01F 27/2866; H01F 41/06

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,684,445 A \* 11/1997 Kobayashi ..... H01F 27/2866 336/206

D565,508 S \* 4/2008 Ogawa ..... D13/117

D594,412 S \* 6/2009 Ueki ..... D13/117  
D669,031 S \* 10/2012 Wagatsuma ..... D13/117  
D747,268 S \* 1/2016 Kim ..... D13/117  
D770,403 S \* 11/2016 McCauley ..... D13/182  
D825,503 S \* 8/2018 Yeng ..... D13/182  
D881,126 S \* 4/2020 Wu ..... D13/117  
2014/0028433 A1 \* 1/2014 Kim ..... B29C 45/14 336/84 R

(Continued)

**OTHER PUBLICATIONS**

“Wurth Elektronik Wireless Power Array”. Found online Nov. 18, 2020 at mouser.com. Reference dated Jul. 27, 2017. Retrieved from <https://www.mouser.com/datasheet/2/445/760308103145-1724528.pdf>. (Year: 2017).\*

(Continued)

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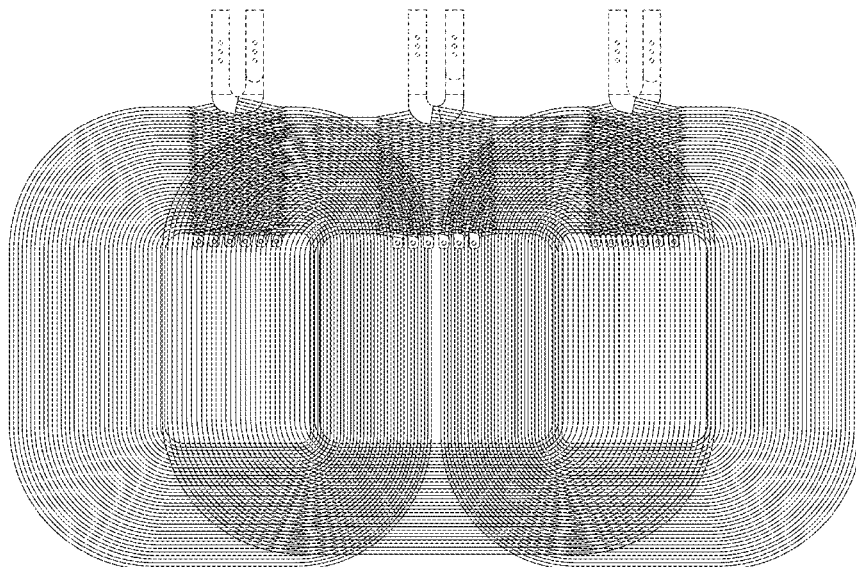
(57) **CLAIM**

The ornamental design for a coil component, as shown and described.

**DESCRIPTION**

FIG. 1 is a top, right side perspective view of a coil component showing our new design; FIG. 2 is a front elevation view thereof; FIG. 3 is a rear elevation view thereof; FIG. 4 is a left side elevation view thereof; FIG. 5 is a right side elevation view thereof; FIG. 6 is a top plan view thereof; and, FIG. 7 is a bottom plan view thereof. The broken lines in the drawings depict portions of the coil component that form no part of the claimed design.

**1 Claim, 5 Drawing Sheets**



(56)

**References Cited**

## U.S. PATENT DOCUMENTS

2015/0123605	A1*	5/2015	Hyun .....	H01F 5/00 320/108
2015/0244203	A1*	8/2015	Kurz .....	H01F 27/2847 320/108
2016/0225514	A1*	8/2016	Cheng .....	H01F 27/2866
2019/0148053	A1*	5/2019	Kaneko .....	H01F 27/006 336/192

## OTHER PUBLICATIONS

“Multi-coil Charger”. Found online Oct. 23, 2020 at 9to5mac.com. Reference dated Feb. 13, 2019. Retrieved from <https://9to5mac.com/2019/02/13/multi-coil-charger/>. (Year: 2019).\*

“Wireless Power Transfer”. Found online Oct. 23, 2020 at product.tdk.com. Reference dated Nov. 2018. Retrieved from [https://product.tdk.com/info/en/catalog/datasheets/wlc\\_tx\\_wt1005690-12k2-a6-g\\_en.pdf](https://product.tdk.com/info/en/catalog/datasheets/wlc_tx_wt1005690-12k2-a6-g_en.pdf). (Year: 2018).\*

“Taidacent Three Coils Wireless Charger”. Found online Oct. 22, 2020 at amazon.com. Reference dated Jan. 6, 2017. Retrieved from [https://www.amazon.com/Taidacent-Wireless-Charging-Technology-Transmitter/dp/B07176HT5T/ref=pd\\_day0\\_504\\_6/137-9030467-9743021](https://www.amazon.com/Taidacent-Wireless-Charging-Technology-Transmitter/dp/B07176HT5T/ref=pd_day0_504_6/137-9030467-9743021) (Year: 2017).\*

\* cited by examiner

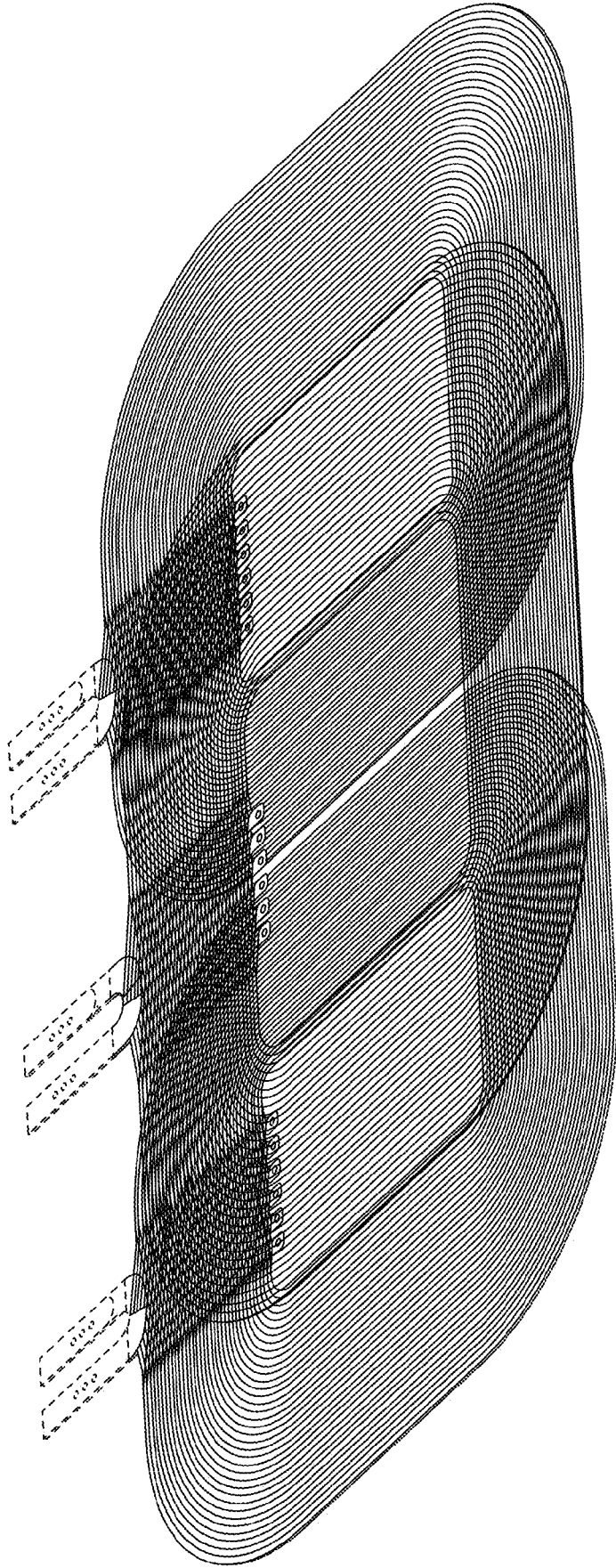


FIG. 1



FIG. 2



FIG. 3



FIG. 5



FIG. 4

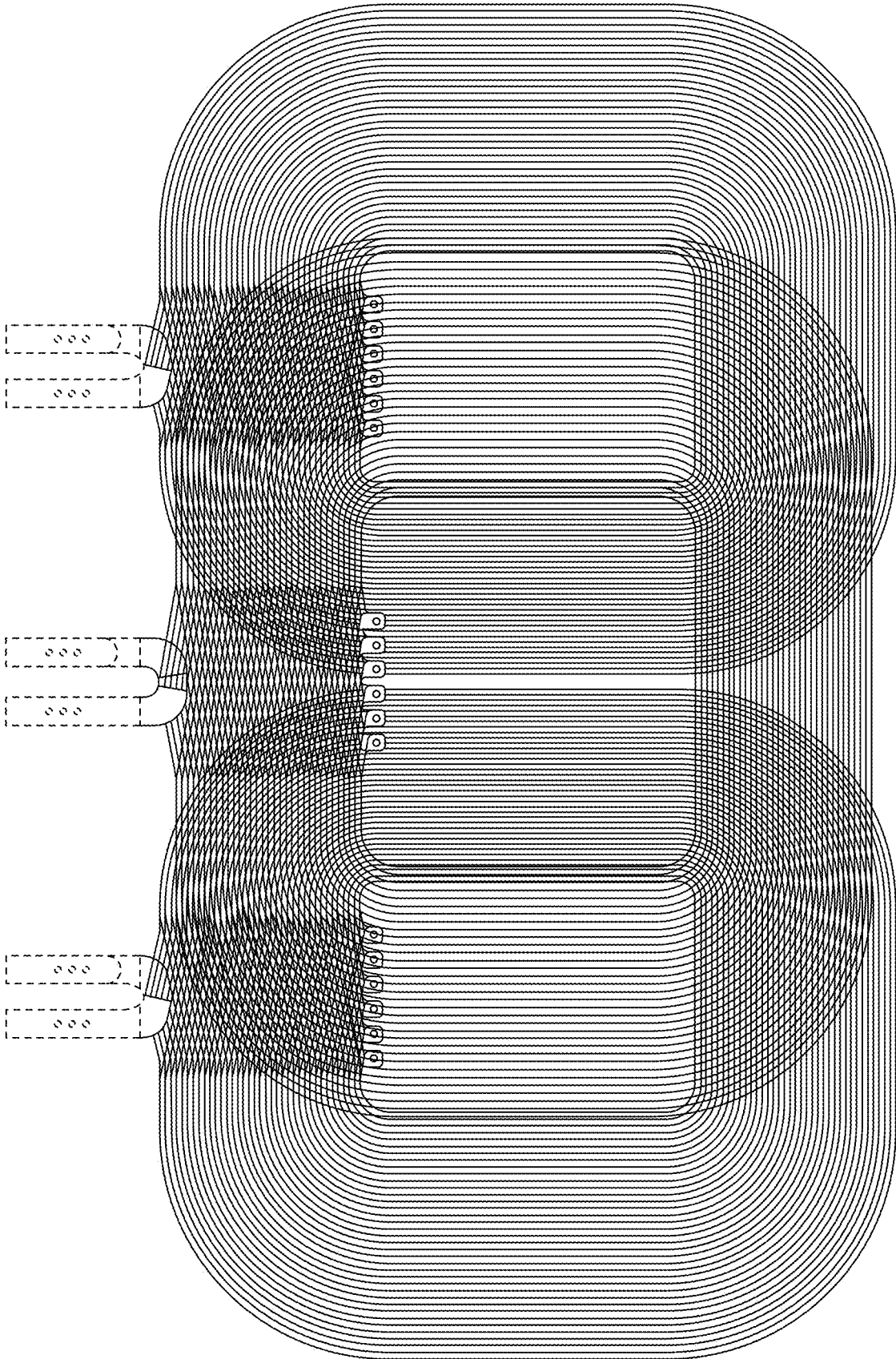


FIG. 6

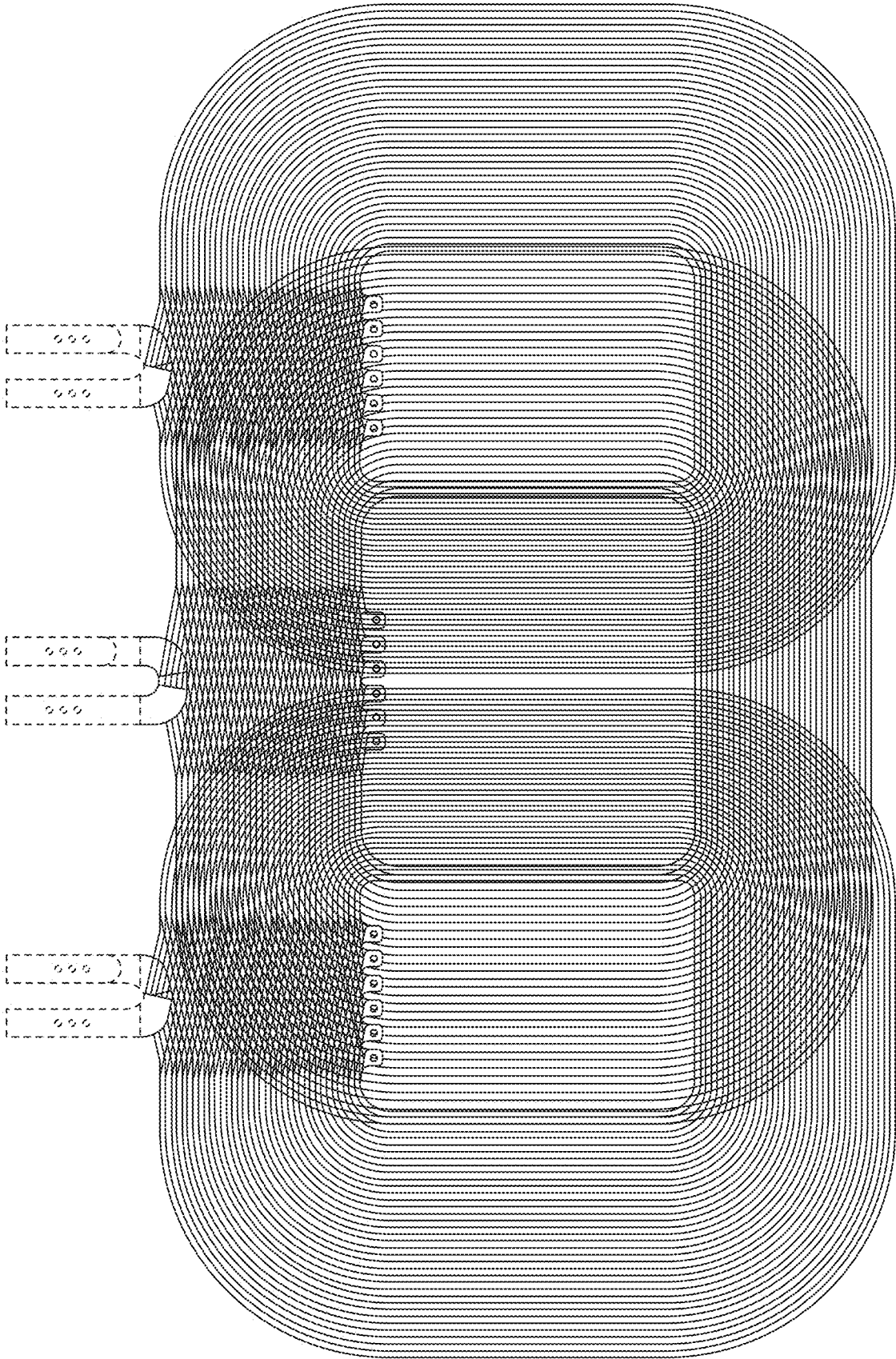


FIG. 7