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(12) **United States Design Patent**
Ishida

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(54) **ELECTRICAL CONNECTOR**

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(73) Assignee: **SMK Corporation**, Tokyo (JP)

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

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(30) **Foreign Application Priority Data**

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

(52) **U.S. Cl.**
USPC **D13/147**

(58) **Field of Classification Search**
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D13/146, 147, 149, 154, 156, 182, 184,
D13/199; D14/356, 433, 435, 438
CPC H01R 24/00; H01R 12/00; H01R 12/70;
H01R 13/62
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D533,506	S	*	12/2006	Peng	.....	D13/147
D539,225	S	*	3/2007	Kishi	.....	D13/147
D681,557	S	*	5/2013	Miyazaki	.....	D13/147
D721,040	S	*	1/2015	Watanabe	.....	D13/147
D745,848	S	*	12/2015	Kobuchi	.....	D13/147
D760,659	S	*	7/2016	Takemoto	.....	D13/147
D792,854	S	*	7/2017	Ashibu	.....	D13/147
D811,344	S	*	2/2018	Ozeki	.....	D13/147
D828,306	S	*	9/2018	Horino	.....	D13/147
D878,302	S	*	3/2020	Yamada	.....	D13/147
2004/0185690	A1	*	9/2004	Huang	.....	H01R 13/6275 439/74
2015/0207248	A1	*	7/2015	Takenaga	.....	H01R 13/6582 439/74
2017/0093061	A1	*	3/2017	Lee	.....	H01R 12/73

OTHER PUBLICATIONS

"Panasonic S35 Series Narrow Pitch Connector". Found online May 26, 2020 at youtube.com. Reference dated Mar. 3, 2017. Retrieved from <https://www.youtube.com/watch?v=dbXxULsYWQw>. (Year: 2017).*

"FPC Connector". Found online May 26, 2020 at youtube.com. Reference dated Sep. 23, 2015. Retrieved from <https://www.youtube.com/watch?v=u3Onln4sfsU>. (Year: 2015).*

"Dogxiong FPC PCB Board Connector". Found online May 26, 2020 at annazon.com. Reference dated Mar. 7, 2015. Retrieved from https://www.amazon.com/Dogxiong-Motherboard-Replacement-iPad-Mini/dp/B01CNWBIRQ/ref=sr_1_4. (Year: 2015).*

* cited by examiner

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(57) **CLAIM**

The ornamental design for an electric connector, as shown and described.

DESCRIPTION

FIG. 1 is a front elevation view of an electrical connector, showing our new design;

FIG. 2 is a top plan view thereof, the bottom plan viewing being a symmetric image thereof;

FIG. 3 is a right side elevation view thereof;

FIG. 4 is a left side elevation view thereof;

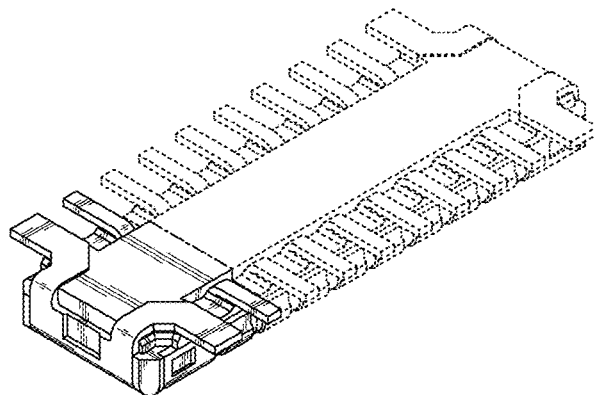
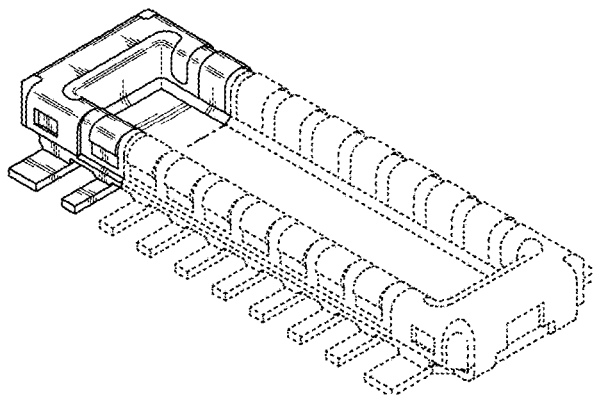
FIG. 5 is a rear elevation view thereof;

FIG. 6 is a front, right side perspective view thereof; and, FIG. 7 is a rear, left side perspective view thereof.

The equal-length broken lines depict portions of the electrical connector that form no part of the claimed design.

The dash-dot-dash broken lines define the boundaries of the claim.

1 Claim, 7 Drawing Sheets



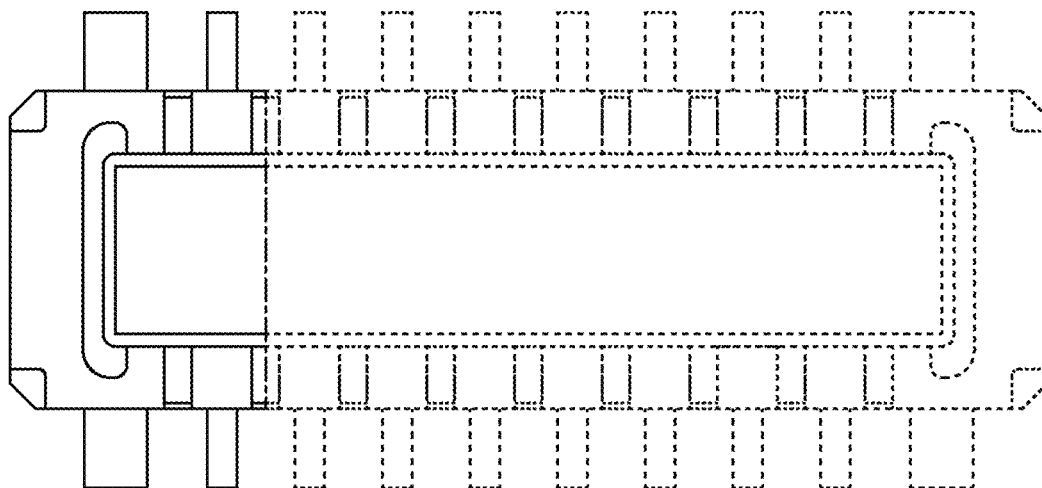


Fig.1

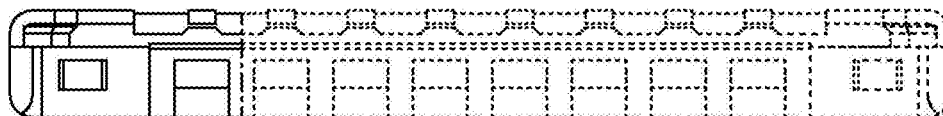


Fig.2

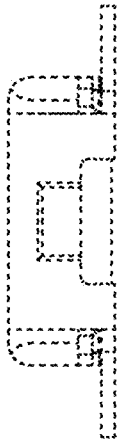


Fig.3

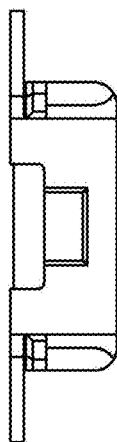


Fig.4

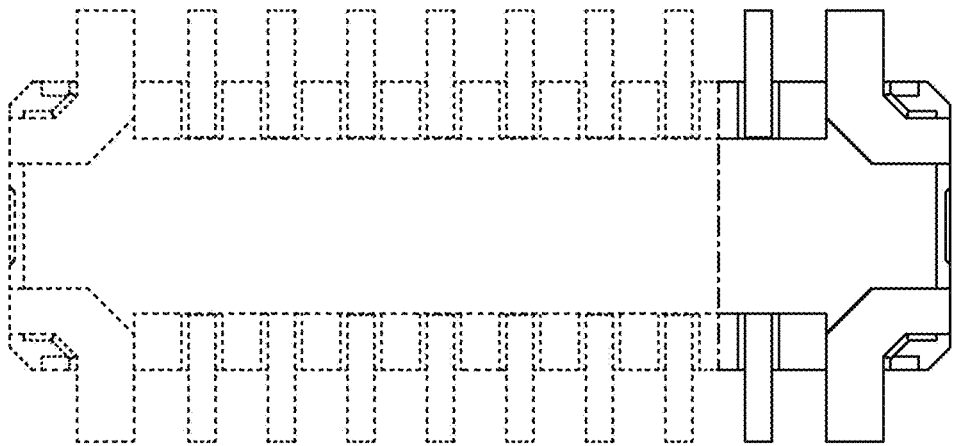


Fig.5

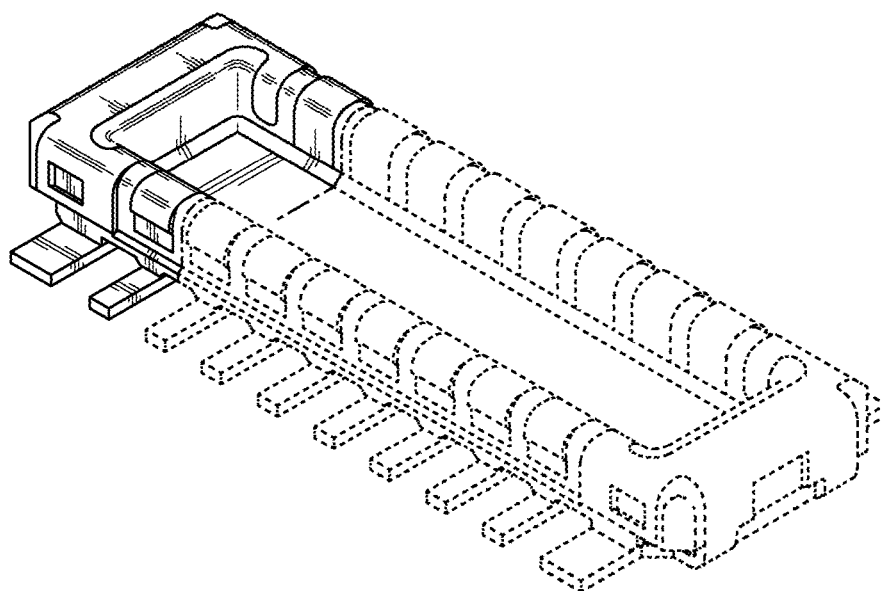


Fig.6

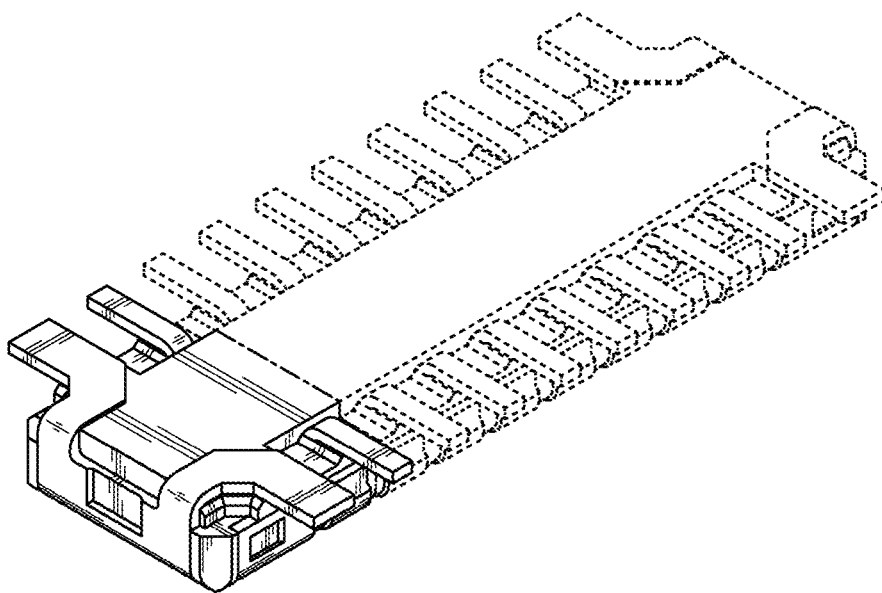


Fig.7