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

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(54) **MULTI-FUNCTION HUB**

G06F 1/1626; G06F 1/1632; G06F 1/1675; G06F 1/1688

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See application file for complete search history.

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(56) **References Cited**

U.S. PATENT DOCUMENTS

D385,185	S	*	10/1997	Rench	D9/430
D404,830	S	*	1/1999	Childs	D24/224
D673,512	S	*	1/2013	Huang	.....	D13/168
D702,632	S	*	4/2014	Salmon	.....	D13/108
D737,825	S	*	9/2015	Kumar	.....	D14/433
D793,399	S	*	8/2017	Feldstein	.....	D14/433
D796,513	S		9/2017	Feldstein et al.		
D808,389	S	*	1/2018	Judge	.....	D10/104.1
D860,937	S	*	9/2019	Slaatto	.....	D13/108
D888,698	S	*	6/2020	HibmaCronan	.....	D13/110

(Continued)

(73) Assignee: **ORBBEC INC.**, Shenzhen (CN)

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

(21) Appl. No.: **29/882,059**

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(30) **Foreign Application Priority Data**

FOREIGN PATENT DOCUMENTS

Dec. 1, 2022 (CN) 202230805597.2

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(51) **LOC (14) Cl.** **14-02**

Primary Examiner — Khawaja Anwar

(52) **U.S. Cl.**
USPC **D14/434**

Assistant Examiner — Megan Tiana Rakos

(58) **Field of Classification Search**
USPC D13/103, 107, 108, 110, 146,

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(57) **CLAIM**

The ornamental design for a multi-function hub, as shown and described.

DESCRIPTION

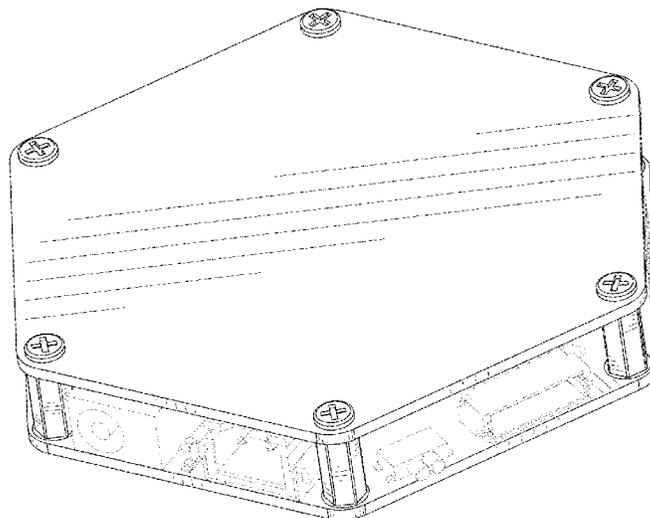
D13/139.6–139.8, 148, 184; D18/12, D18/12.1, 12.3; D14/125, 126, 149, 168, D14/217, 224, 224.1, 238.1, 239, 240, D14/242, 251, 252, 253, 356, 357, 358, D14/378, 383, 384, 385, 386, 432, 433, D14/434, 435.1, 447, 455, 480.1, 480.3, D14/480.4, 480.5, 480.6, 480.7

CPC G06K 19/07749; G06K 19/07723; G06K 19/041; G06K 19/07758; G06K 19/0775; G06K 19/07783; G06K 19/07794; G06K 19/06046; G06K 19/07722; G06K 19/07773; G06K 19/07779; G06K 19/07784; G06K 19/07786; G06K 19/0709; H04M 1/04; H05K 5/0234; F16M 11/10; F16M 11/24; G06F 1/16;

FIG. 1 is a front right bottom perspective view of a multi-function hub showing our new design;
 FIG. 2 is a front bottom perspective view thereof;
 FIG. 3 is a front view thereof;
 FIG. 4 is a rear view thereof;
 FIG. 5 is a left side view thereof;
 FIG. 6 is a right side view thereof;
 FIG. 7 is a top view thereof; and,
 FIG. 8 is a bottom view thereof.

The broken lines in the drawings are for the purpose of illustrating portions of the multi-function hub which form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D924,215	S	*	7/2021	Homza	.....	D14/240
D954,676	S	*	6/2022	Stefans	.....	D14/218
D1,012,044	S	*	1/2024	Cortland	.....	D14/218
2019/0372203	A1	*	12/2019	Su	.....	H01Q 1/246

* cited by examiner

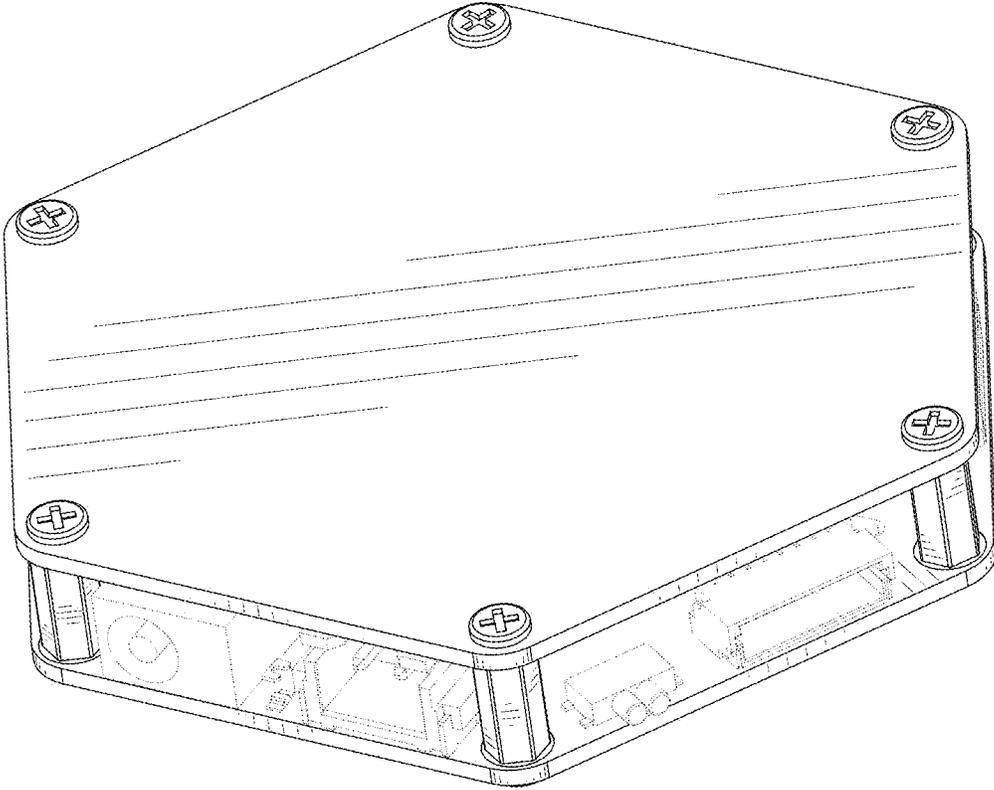


FIG. 1

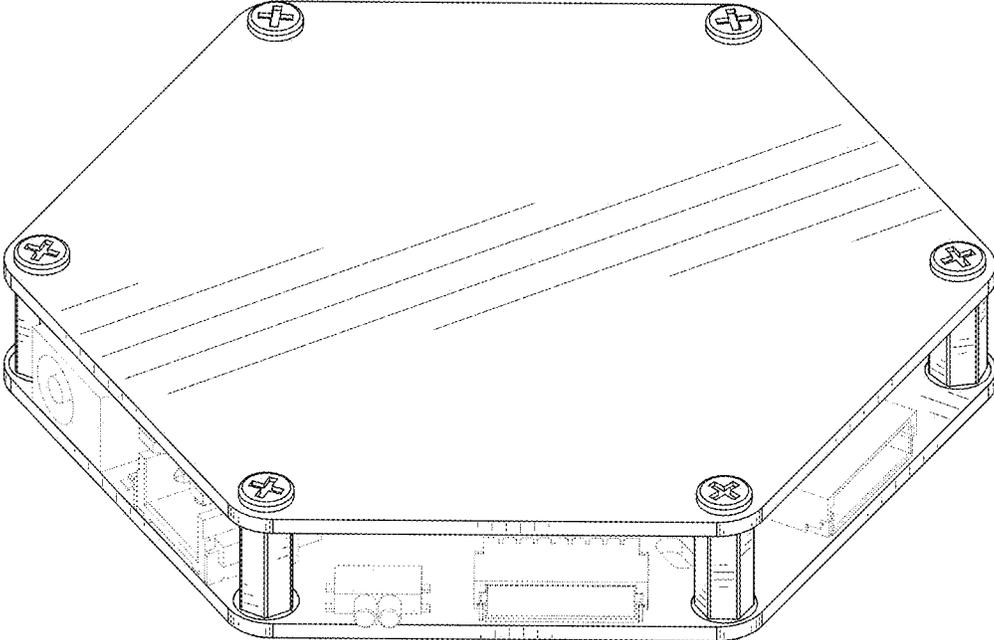


FIG. 2

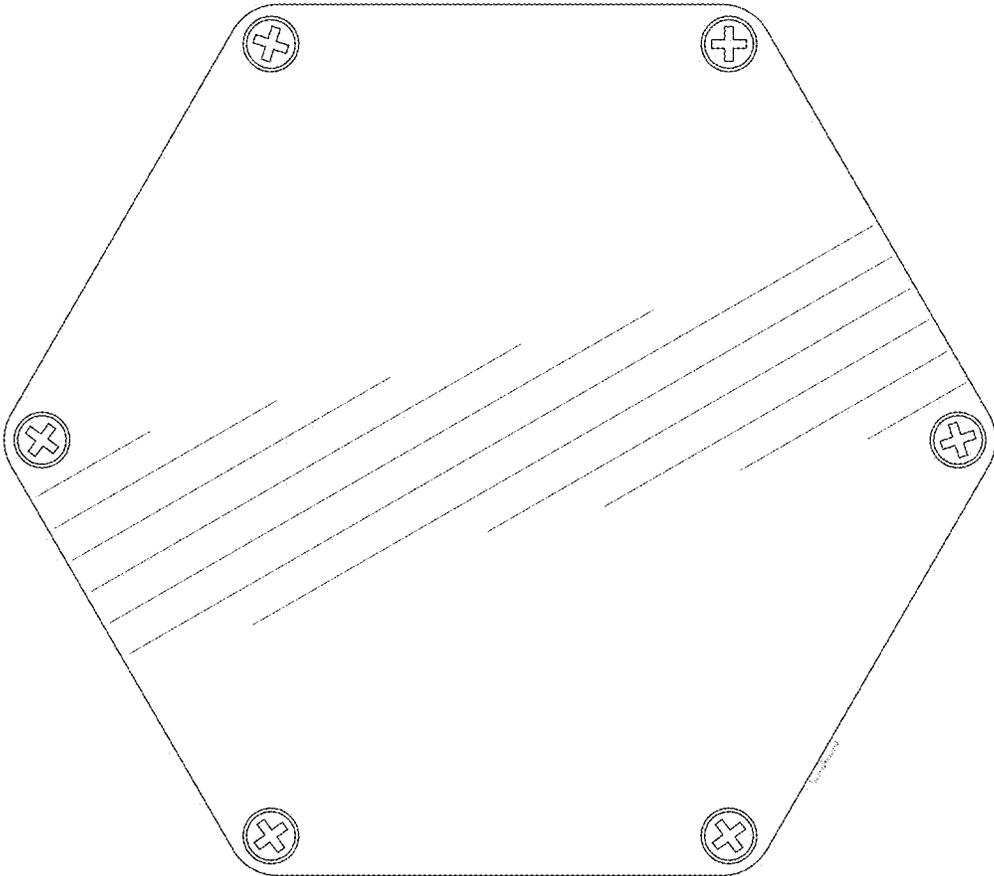


FIG. 3

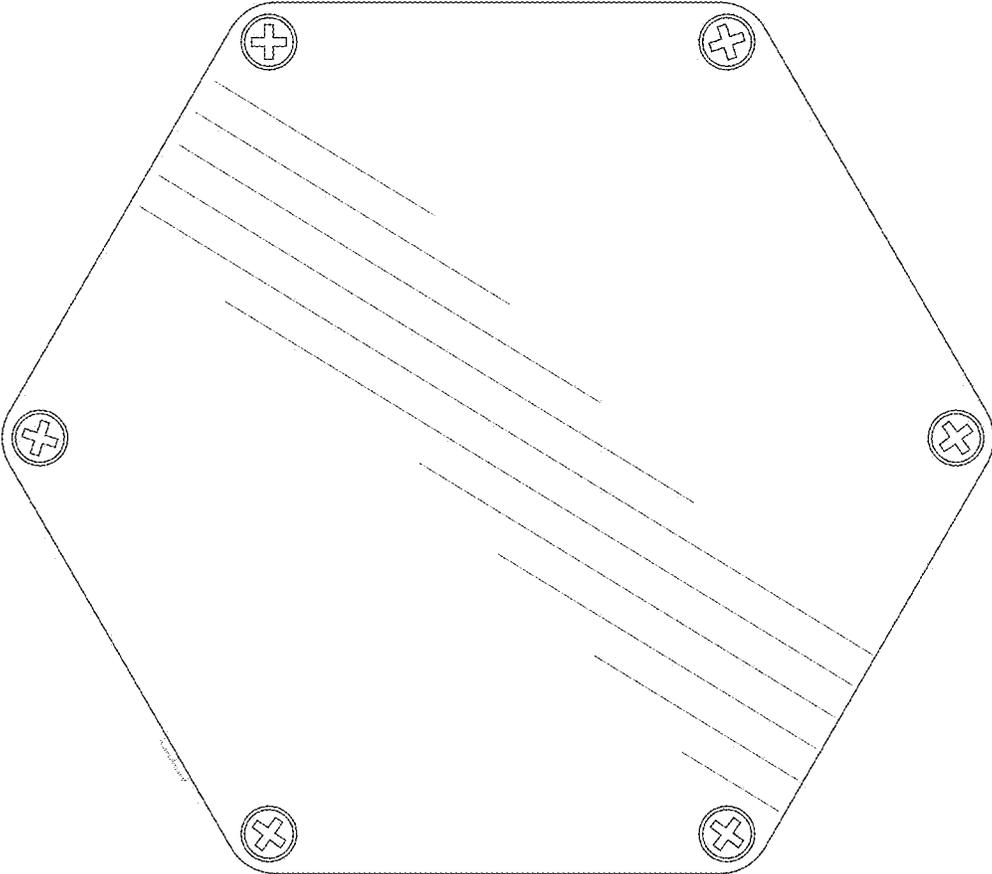


FIG. 4

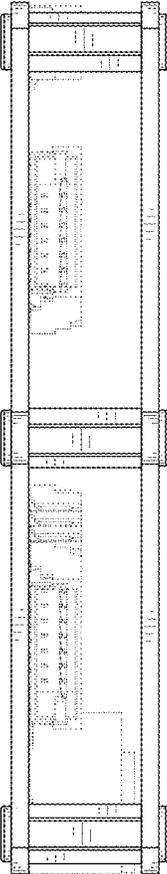


FIG. 5

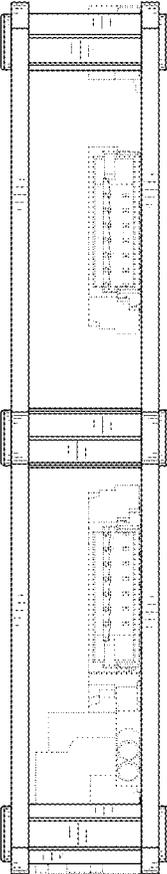


FIG. 6

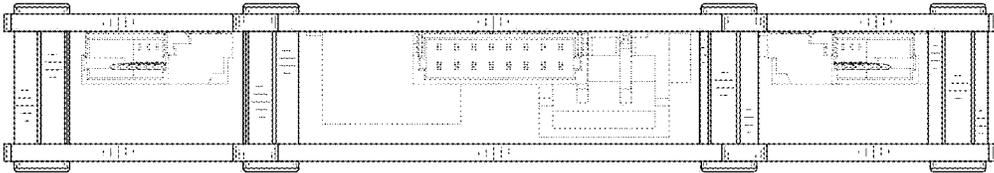


FIG. 7

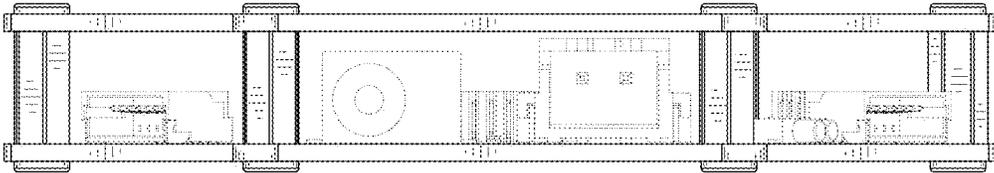


FIG. 8