



US0D1088801S

(12) **United States Design Patent** (10) **Patent No.:** **US D1,088,801 S**
Lin (45) **Date of Patent:** **** Aug. 19, 2025**

(54) **QUADRANGLE FLEXIBLE HINGE**

(71) Applicant: **Zhiwei Lin**, Huizhou (CN)

(72) Inventor: **Zhiwei Lin**, Huizhou (CN)

(73) Assignee: **Zhiwei Lin**, Huizhou (CN)

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

(21) Appl. No.: **29/811,240**

(22) Filed: **Oct. 13, 2021**

(51) **LOC (15) Cl.** **08-06**

(52) **U.S. Cl.**
USPC **D8/328**

(58) **Field of Classification Search**
USPC D8/323–329, 331, 336
CPC E05D 3/02; E05D 3/06; E05D 3/10; E05D
3/12; E05D 3/16; E05D 3/18; E05D
3/127; E05D 3/186; E05D 7/04; E05D
7/0415; E05D 7/0423; E05D 7/0045;
E05D 11/06; E05D 11/0027; E05F 1/1215
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D18,956 S *	3/1889	Hart et al.	.....	D8/328
D26,381 S *	12/1896	Chisholm	.....	D8/328
D30,022 S *	1/1899	Behrens	.....	D8/328
D42,055 S *	12/1911	McKinney	.....	D8/328
1,266,993 A *	5/1918	Romans	.....	D06F 81/10 38/139
D154,365 S *	7/1949	Boye	.....	D8/328
D628,409 S *	12/2010	Anzai	.....	D8/323
8,024,019 B2 *	9/2011	Miyaoka	.....	H04M 1/0237 174/520
10,190,349 B1 *	1/2019	Jacobson	.....	E05F 3/20
2015/0013107 A1 *	1/2015	Shin	.....	E05D 3/06 16/366
2019/0226255 A1 *	7/2019	Fields	.....	E05D 11/0054

OTHER PUBLICATIONS

“Source One Premium Clear Flexible Hinge” Apr. 4, 2017, Amazon, site visited Sep. 1, 2023: <https://www.amazon.com/dp/B06Y1V4GDX/> (Year: 2017).*

“Caterpillar Red Flexible Hinges” May 25, 2018, Amazon, site visited Sep. 1, 2023: <https://www.amazon.com/profile-flexible-plexiglass-Transparent-Continuous/dp/B078G742Y9/> (Year: 2018).*

“Caterpillar Red Flexible Hinges” Aug. 24, 2020, Amazon, site visited Sep. 1, 2023: <https://www.amazon.com/50mm-Flexible-Hinges-required-Transparent/dp/B08GKWT5Z/> (Year: 2020).*

(Continued)

Primary Examiner — Erich G Herbermann

Assistant Examiner — Rene H. Kadoo

(57) **CLAIM**

The ornamental design for a quadrangle flexible hinge as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a quadrangle flexible hinge showing my new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is an enlarged view of area 8 shown in FIG. 2;

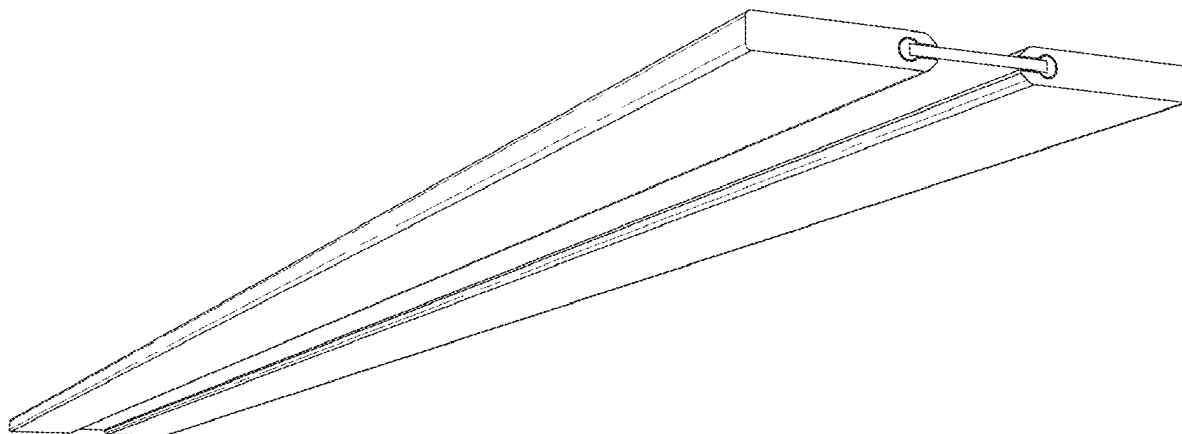
FIG. 9 is an enlarged view of area 9 shown in FIG. 3;

FIG. 10 is an enlarged view of area 10 shown in FIG. 4; and,

FIG. 11 is an enlarged view of area 11 shown in FIG. 5.

The dash lines encircling the areas of enlargement form no part of the claimed design.

1 Claim, 11 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

“Caterpillar Red Flexible Hinges” May 24, 2021, Amazon, site visited Sep. 1, 2023: <https://www.amazon.com/1150mm-Flexible-Hinges-Plexiglass-Transparent/dp/B095PPDMBF/> (Year: 2021).*

* cited by examiner

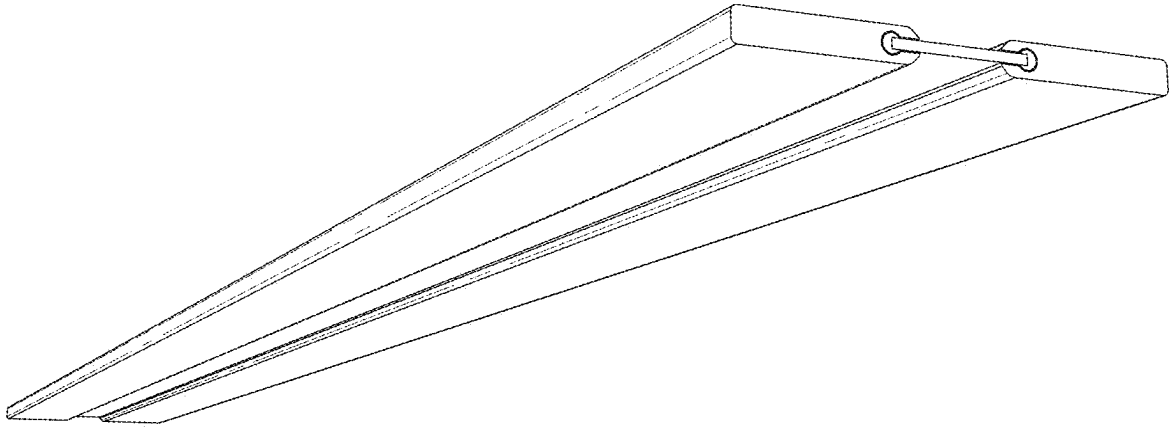


FIG. 1

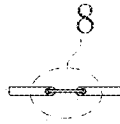


FIG. 2

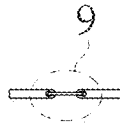


FIG. 3

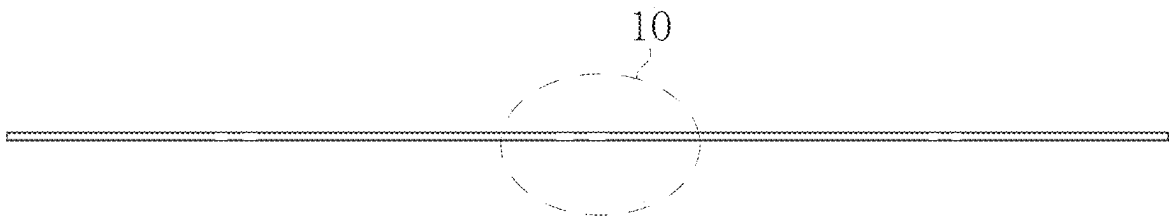


FIG. 4

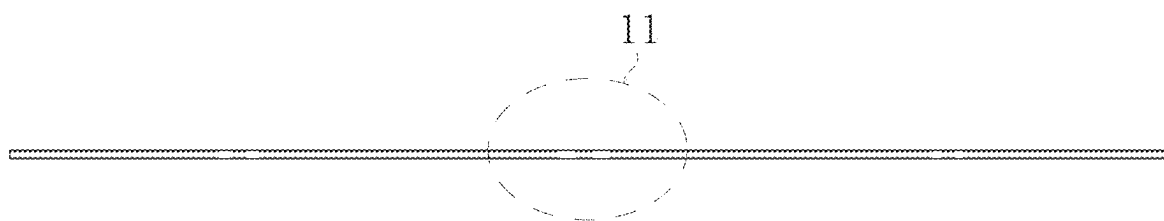


FIG. 5

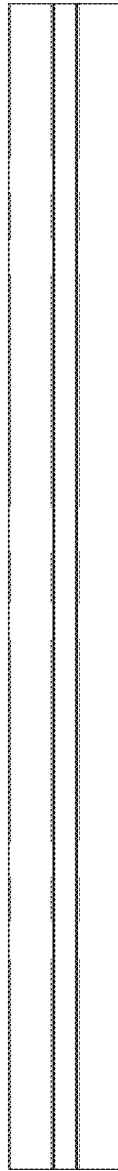


FIG. 6

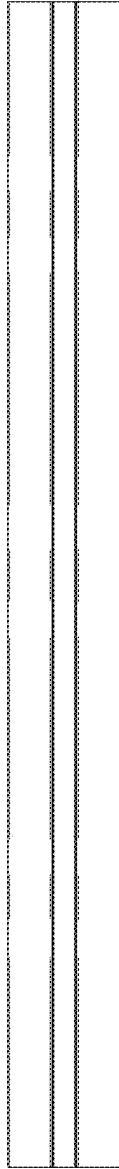


FIG. 7

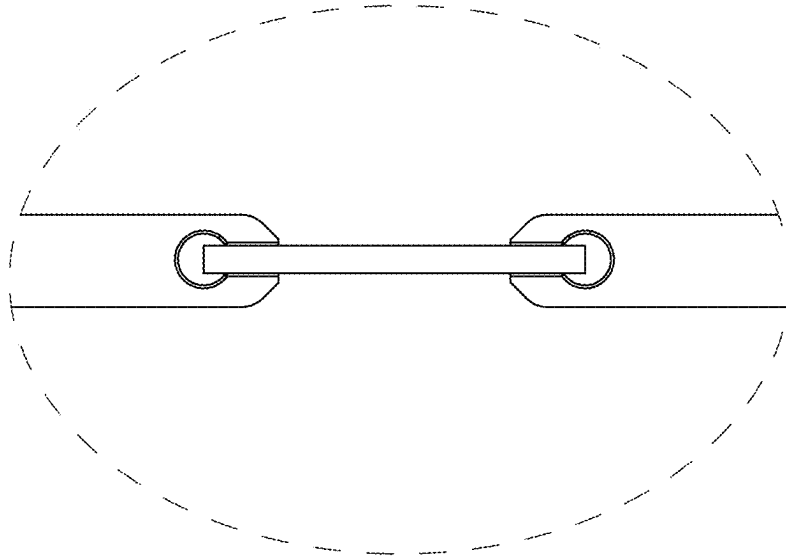


FIG . 8

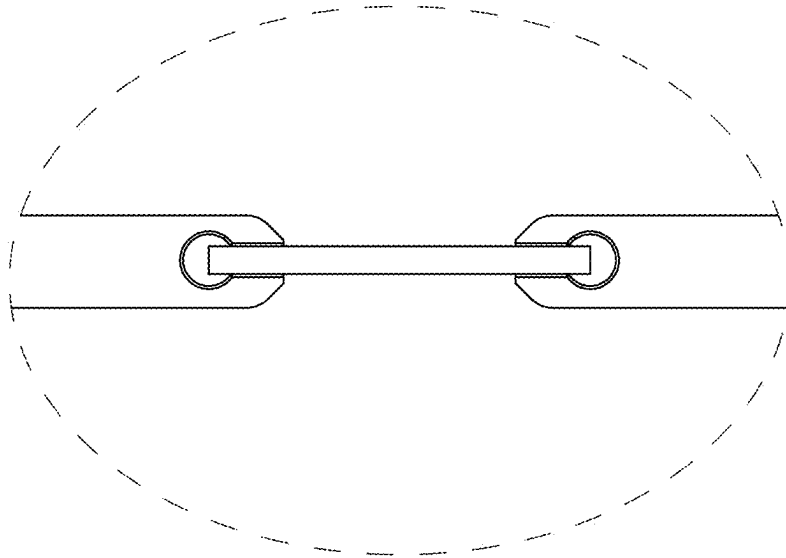


FIG. 9

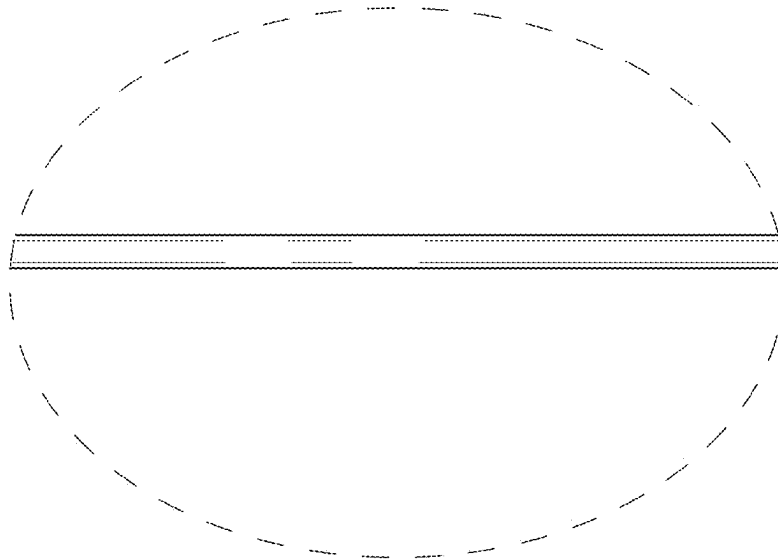


FIG. 10

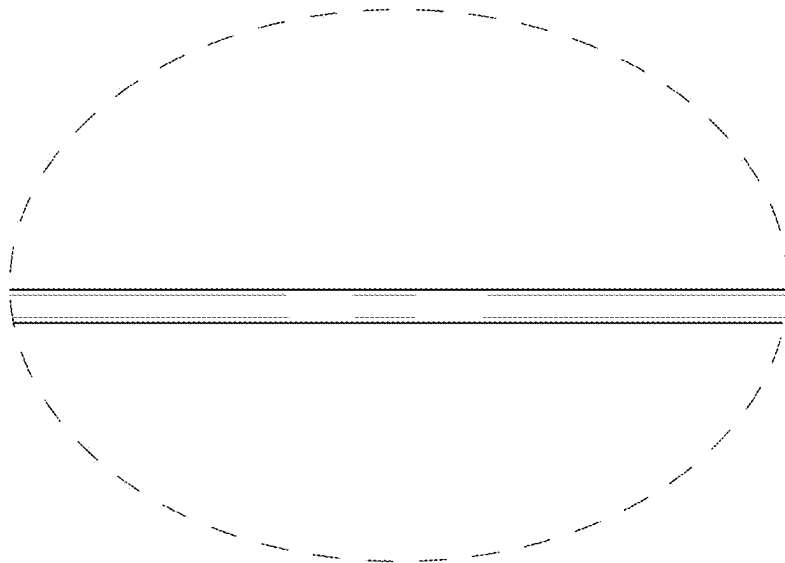


FIG. 11