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

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(54) **SOLAR PANEL STRUCTURE**

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

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(51) **LOC (15) Cl.** **13-04**

(52) **U.S. Cl.**
USPC **D13/102**

(58) **Field of Classification Search**

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D8/363–366, 373, 376, 377, 380, 381;
D13/101–103, 107, 108, 118, 119, 184,
D13/187, 199; D25/17, 18, 22, 30, 109,
D25/138–142, 144, 152–154, 156;
D14/371, 432, 439, 441, 447, 451;
D21/480, 484
CPC . H01M 10/052; H01M 10/465; H01L 31/042;
H01L 31/022425; H01L 31/18; H02S
30/10; H02S 30/20; H02S 30/40; H02S
30/42; H02S 30/50; H02S 30/52; Y02E
10/50; Y02E 10/52; F21S 8/03; F21S
8/032; F21S 8/081; F21S 8/083; F21S
8/086; F21S 8/088; F21S 9/032; F21S
9/035

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D243,185 S * 1/1977 Parker D13/102
4,312,325 A * 1/1982 Voges F24S 50/00
126/588
5,125,608 A * 6/1992 McMaster F24S 25/12
248/676
D625,667 S * 10/2010 Oviedo D12/102
D652,789 S * 1/2012 Kawai D13/102

D658,120 S * 4/2012 Kawai D13/102
D671,885 S * 12/2012 Steinau D13/102
D699,666 S * 2/2014 Moyal D13/102
9,184,628 B2 11/2015 Carpoff
9,444,395 B2 * 9/2016 Tung F24S 25/65
9,523,517 B2 * 12/2016 Warpup F24S 25/12
9,985,578 B2 * 5/2018 Jensen F16M 11/10
10,020,772 B1 * 7/2018 Puri H02S 30/10
D844,554 S * 4/2019 Franklin D13/102

(Continued)

FOREIGN PATENT DOCUMENTS

CN 307202839 * 3/2022
CN 308054039 * 5/2023

(Continued)

OTHER PUBLICATIONS

Aims Power Solar Rack Ground Mount, posted Jul. 11, 2022[online],
[retrieved Apr. 29, 2025]. Retrieved from internet, <https://a.co/d/hQKp7jc> (Year: 2022).*

(Continued)

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(57)

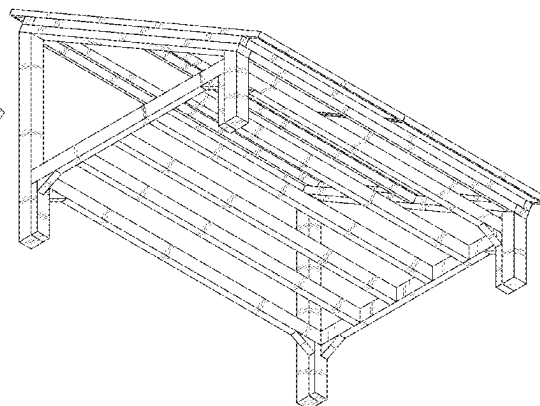
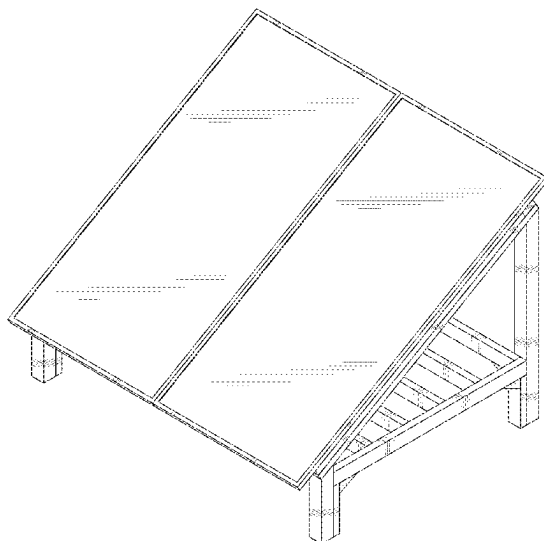
CLAIM

The ornamental design for a solar panel structure as shown
and described.

DESCRIPTION

FIG. 1 is a top perspective view of a solar panel structure
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 bottom plan view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom perspective view thereof.

1 Claim, 8 Drawing Sheets



Page 2

References Cited

2018/0091087	A1 *	3/2018	Bailey	H02S 30/10
2019/0158013	A1 *	5/2019	Boguess	F24S 25/65
2022/0077817	A1	3/2022	Caelers et al.	

10,250,181	B2 *	4/2019	Vieta	H02S 20/24
D921,573	S *	6/2021	Wares	D13/102
11,444,570	B2 *	9/2022	Natividad	H02S 20/30
11,695,367	B1	7/2023	Lee et al.	
11,757,400	B1 *	9/2023	Jasmin	H02S 20/23
				248/237
11,770,097	B1 *	9/2023	Jasmin	H02S 30/10
				248/229.12
D1,022,871	S *	4/2024	Minnier	D13/102
12,003,207	B1 *	6/2024	Jasmin	F24S 25/632
12,009,778	B2 *	6/2024	Jasmin	F16B 5/0233
12,117,108	B1 *	10/2024	Mumma	H02S 20/10
2003/0070368	A1 *	4/2003	Shingleton	F24S 25/33
				52/173.3
2005/0172953	A1	8/2005	Klein	
2009/0001179	A1	1/2009	Dempsey	
2009/0145423	A1 *	6/2009	Carcangiu	H02S 20/00
				126/600
2010/0077679	A1 *	4/2010	Sagayama	F24S 25/13
				52/173.3
2011/0088688	A1 *	4/2011	Sha	H02S 20/10
				126/680
2011/0179727	A1 *	7/2011	Liu	F24S 25/61
				52/173.3
2011/0209422	A1 *	9/2011	King	F24S 25/20
				52/173.3
2012/0090665	A1 *	4/2012	Zuritis	F16B 7/105
				211/41.18
2012/0132262	A1 *	5/2012	Sagayama	H02S 20/10
				136/251
2013/0133275	A1 *	5/2013	Bindschedler	H10F 19/00
				52/173.3
2014/0028241	A1	1/2014	Hixson	
2014/0341645	A1 *	11/2014	Liu	F24S 25/636
				403/311
2016/0365823	A1 *	12/2016	French	H02S 40/33

CN	308156574	*	8/2023
CN	309179656	*	3/2025
DE	202014005869	U1	9/2014
JP	D1782081	*	10/2024

OTHER PUBLICATIONS

Rpvopzwer Adjustable Solar Panel Tilt Mount Brackets, posted Feb. 22, 2025[online], [retrieved Apr. 29, 2025]. Retrieved from internet, <https://a.co/d/cY0q2Zi> (Year: 2025).*

Solar Mounting Structure , posted Apr. 16, 2022[online], [retrieved Apr. 29, 2025]. Retrieved from internet, <https://ornatesolar.com/blog/different-types-of-solar-mounting-structures> (Year: 2022).*

Solar Trailer by RevoPower, posted Oct. 30, 2024[online], [retrieved Apr. 28, 2025]. Retrieved from internet, <https://revopower.us/solar-trailer> (Year: 2024).*

Exploring Alternatives, Passive House =90% Home Energy Reduction!, retrieved from Internet, retrieved on Dec. 11, 2023, <URL: https://www.youtube.com/watch?v=Hz6qomFM_dw>.

Eldredge, Barbara, Passive house construction: Everything you need to know, retrieved from Internet, retrieved on Dec. 11, 2023, <URL: <https://archive.curbed.com/2016/9/6/12583346/passive-house-construction-guide>>.

Rooney, Jim, On the Level: More pros than cons with timers for hot water heaters, retrieved from Internet, retrieved on Dec. 11, 2023, <URL: <https://www.capitalgazette.com/2014/07/12/on-the-level-more-pros-than-cons-with-timers-for-hot-water-heaters/>>.

* cited by examiner

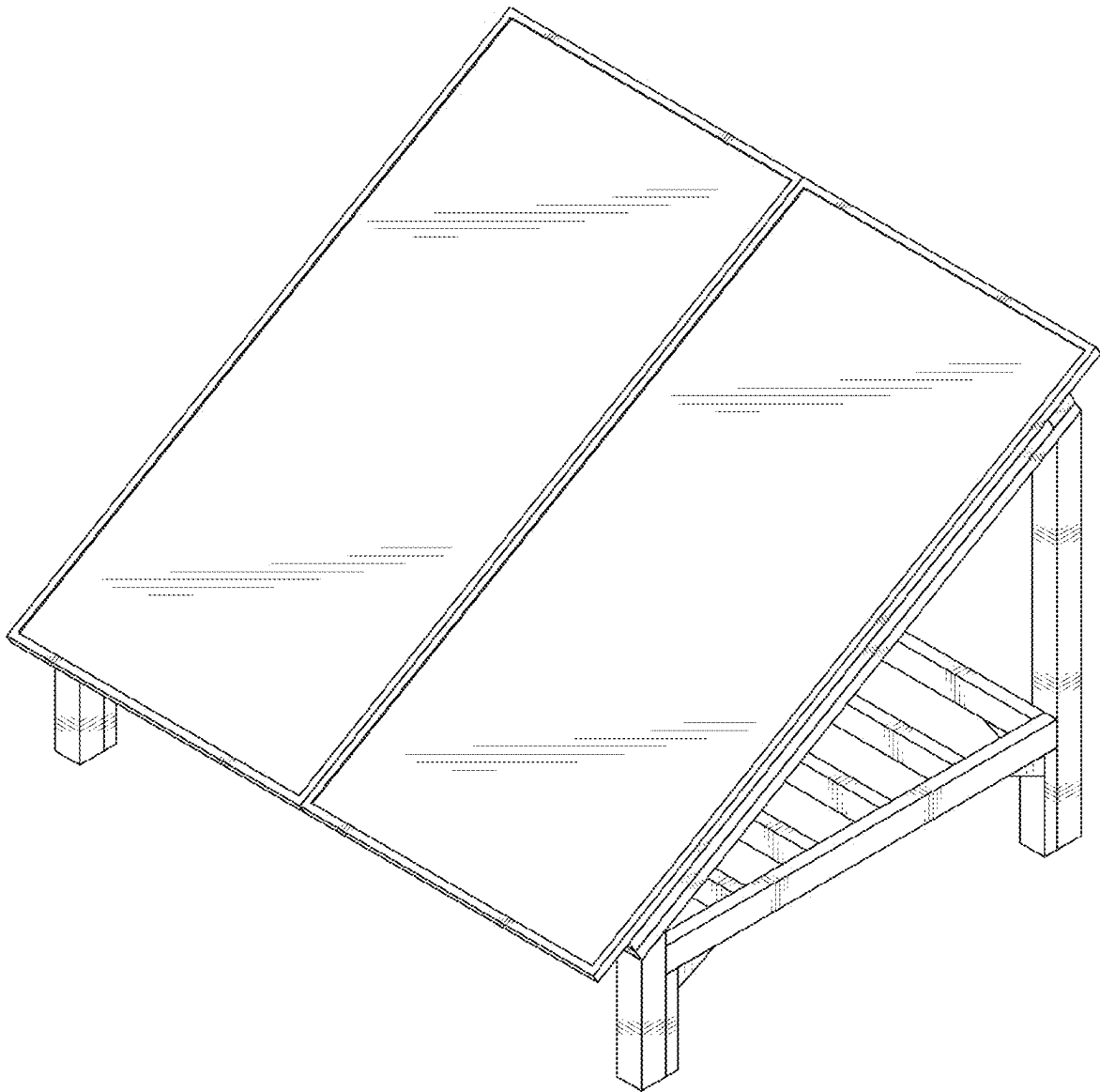


FIG. 1

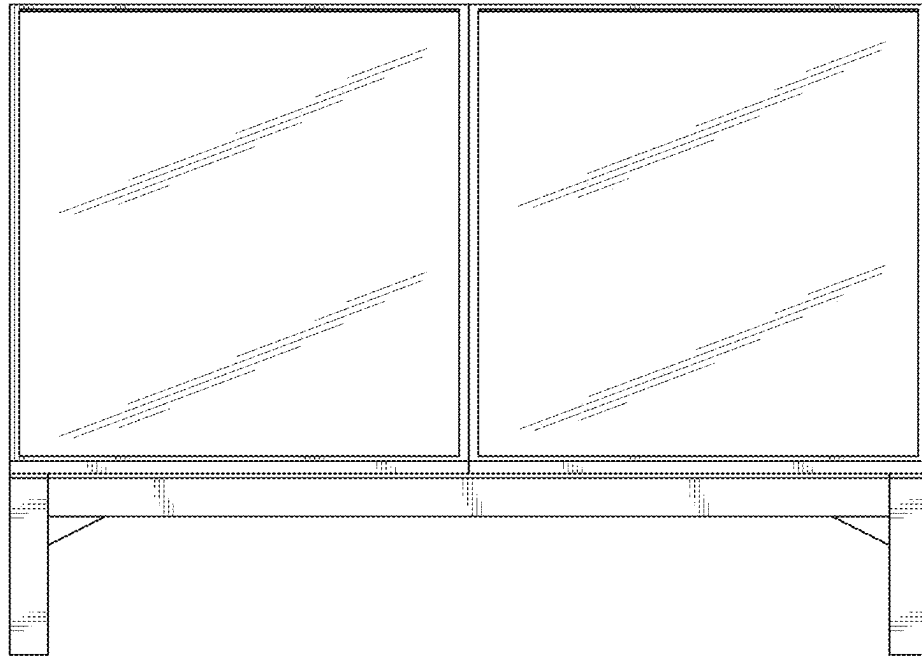


FIG. 2

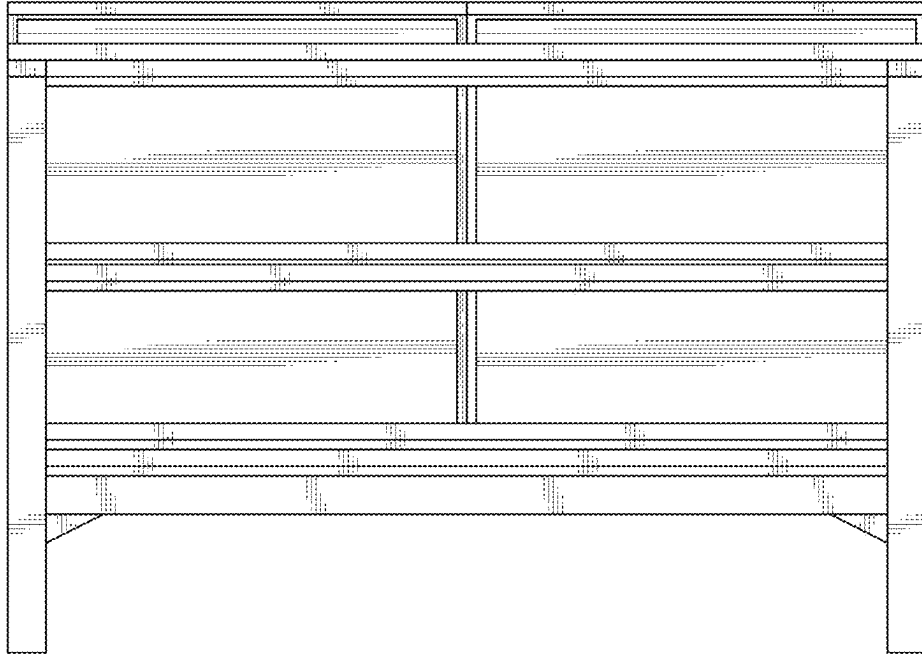


FIG. 3

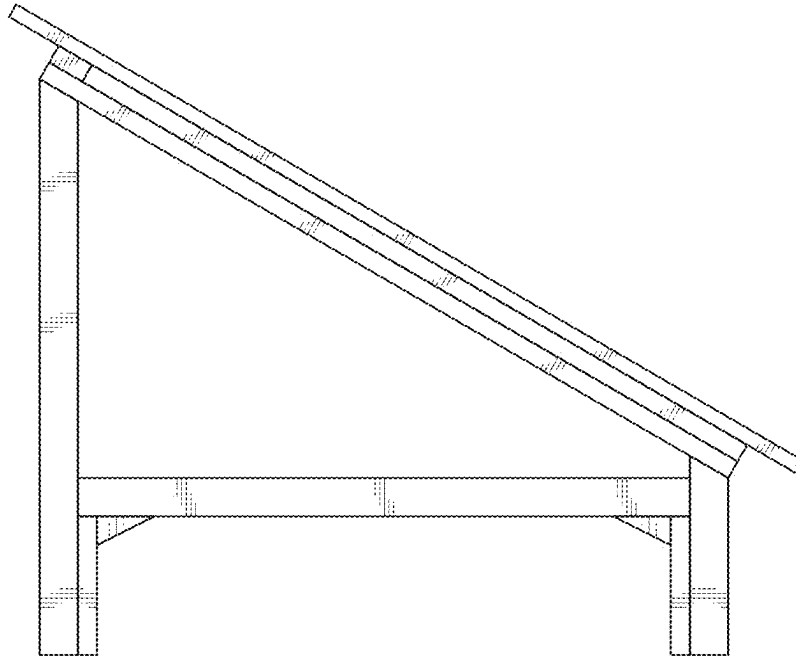


FIG. 4

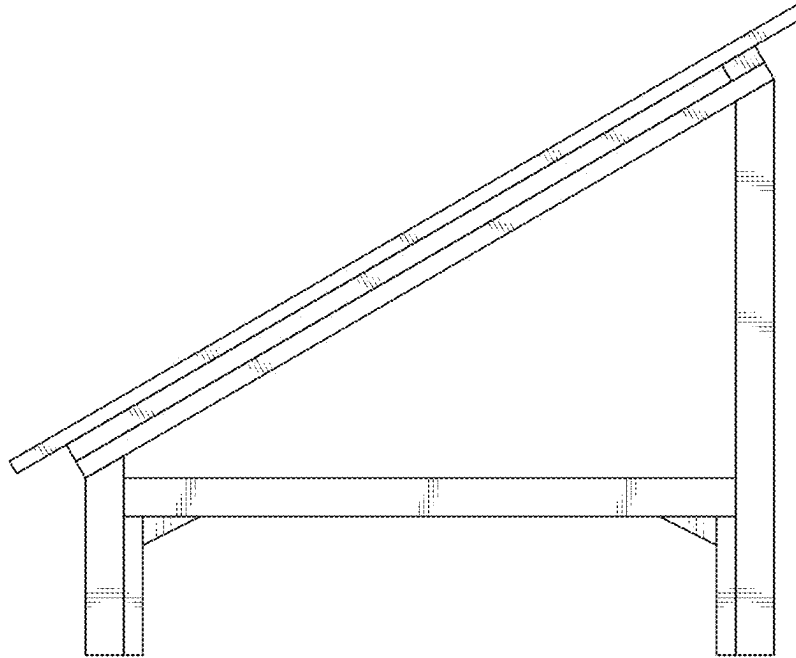


FIG. 5

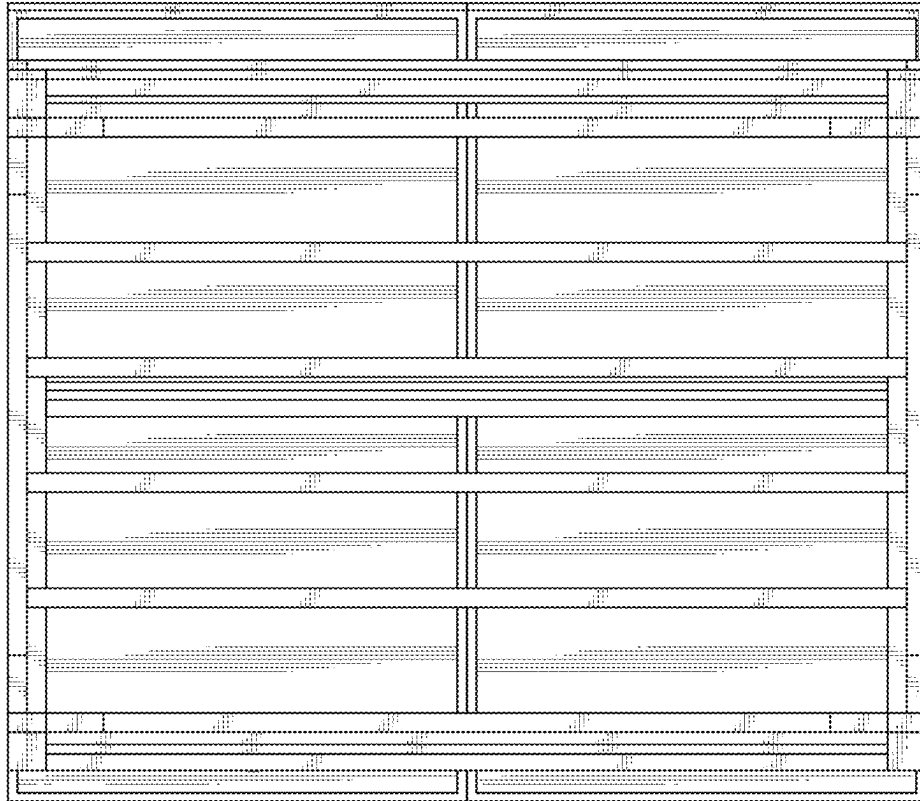


FIG. 6

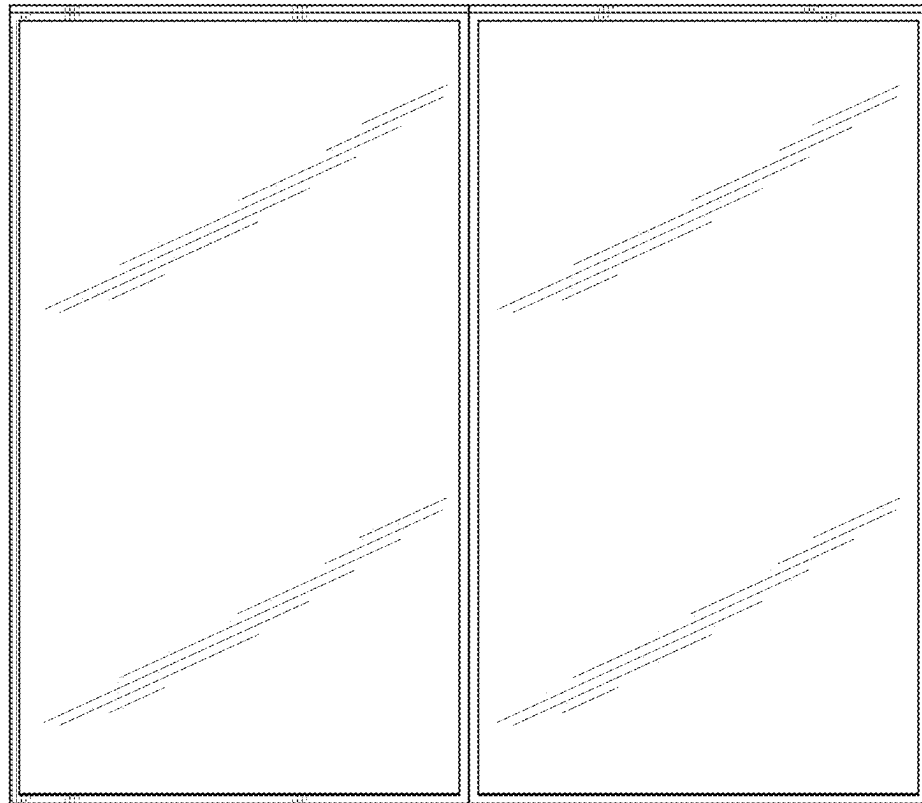


FIG. 7

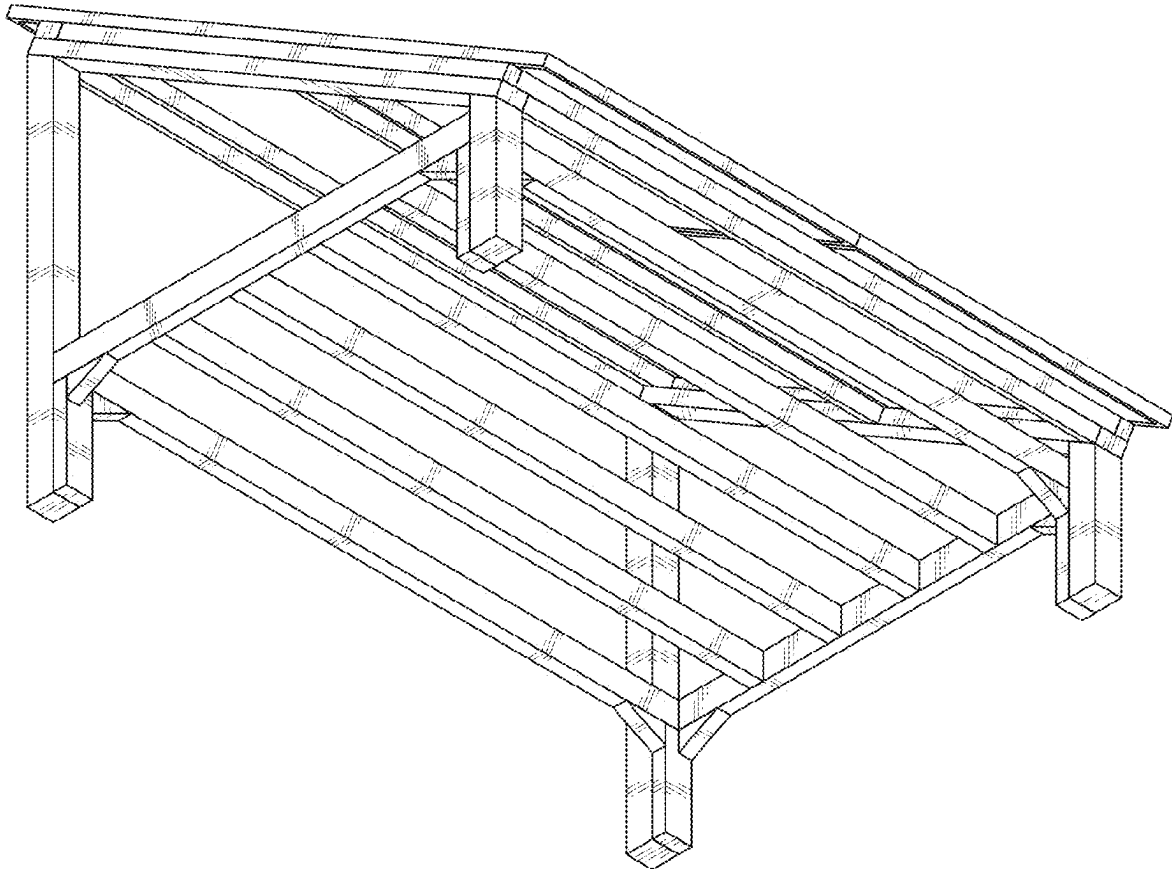


FIG. 8