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(12) **United States Design Patent** (10) **Patent No.:** **US D790,407 S**  
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(54) **TRAILER REAR IMPACT GUARD**

7,967,349 B2 6/2011 Puppini et al.  
D658,549 S \* 5/2012 Neumann ..... D12/106  
D703,106 S \* 4/2014 Deighton ..... D12/106  
8,720,924 B2 5/2014 Ruehl

(71) Applicant: **STI Holdings, Inc.**, Stoughton, WI  
(US)

(72) Inventors: **Daniel Patrick Miller**, Madison, WI  
(US); **Francis Steven Smidler**,  
Stoughton, WI (US)

(73) Assignee: **STI Holdings, Inc.**, Stoughton, WI  
(US)

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

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(52) **U.S. Cl.**  
USPC ..... **D12/106**

(58) **Field of Classification Search**  
USPC ..... D12/100-106, 19, 129, 111-112;  
D21/425, 435; D34/21-26, 12, 16-19  
CPC ..... B62D 35/02; B62D 35/00; A62B 3/005;  
B60P 3/10; B60P 3/1033; E01F 15/14  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,578,358 A 5/1971 Reynolds  
3,698,609 A 10/1972 Lund  
3,871,695 A 3/1975 Koenig  
4,359,239 A 11/1982 Eggert  
5,507,546 A 4/1996 Holley  
5,632,518 A 5/1997 Kendall  
5,673,953 A 10/1997 Spease  
D386,129 S \* 11/1997 Jantz ..... D12/106  
6,520,469 B1 2/2003 DiMauro  
6,523,872 B2 2/2003 Breed  
D503,838 S \* 4/2005 Archambault ..... D34/23  
7,086,674 B2 8/2006 Goertz  
7,407,204 B2 8/2008 Eriksson et al.

**OTHER PUBLICATIONS**

“Crash Test #3” downloaded from <http://www.fem.unicamp.br/~impact/crashcrm.htm>, publicly available prior to Jun. 3, 2015 (2 pages).  
“Crash Test #2” downloaded from <http://www.fem.unicamp.br/~impact/articul.htm>, publicly available prior to Jun. 3, 2015 (2 pages).  
“Crash Test #4” downloaded from <http://www.fem.unicamp.br/~impact/Intelligentunderrideguard.htm>, publicly available prior to Jun. 3, 2015 (2 pages).  
“On guard: Safety gear on the back of truck trailers is improving,” downloaded from [www.iihs.org/iihs/sr/statusreport/article/49/7/1](http://www.iihs.org/iihs/sr/statusreport/article/49/7/1), vol. 49, No. 7, Oct. 9, 2014 (3 pages).

(Continued)

*Primary Examiner* — Katrina A Betton  
(74) *Attorney, Agent, or Firm* — Michael Best & Friedrich LLP

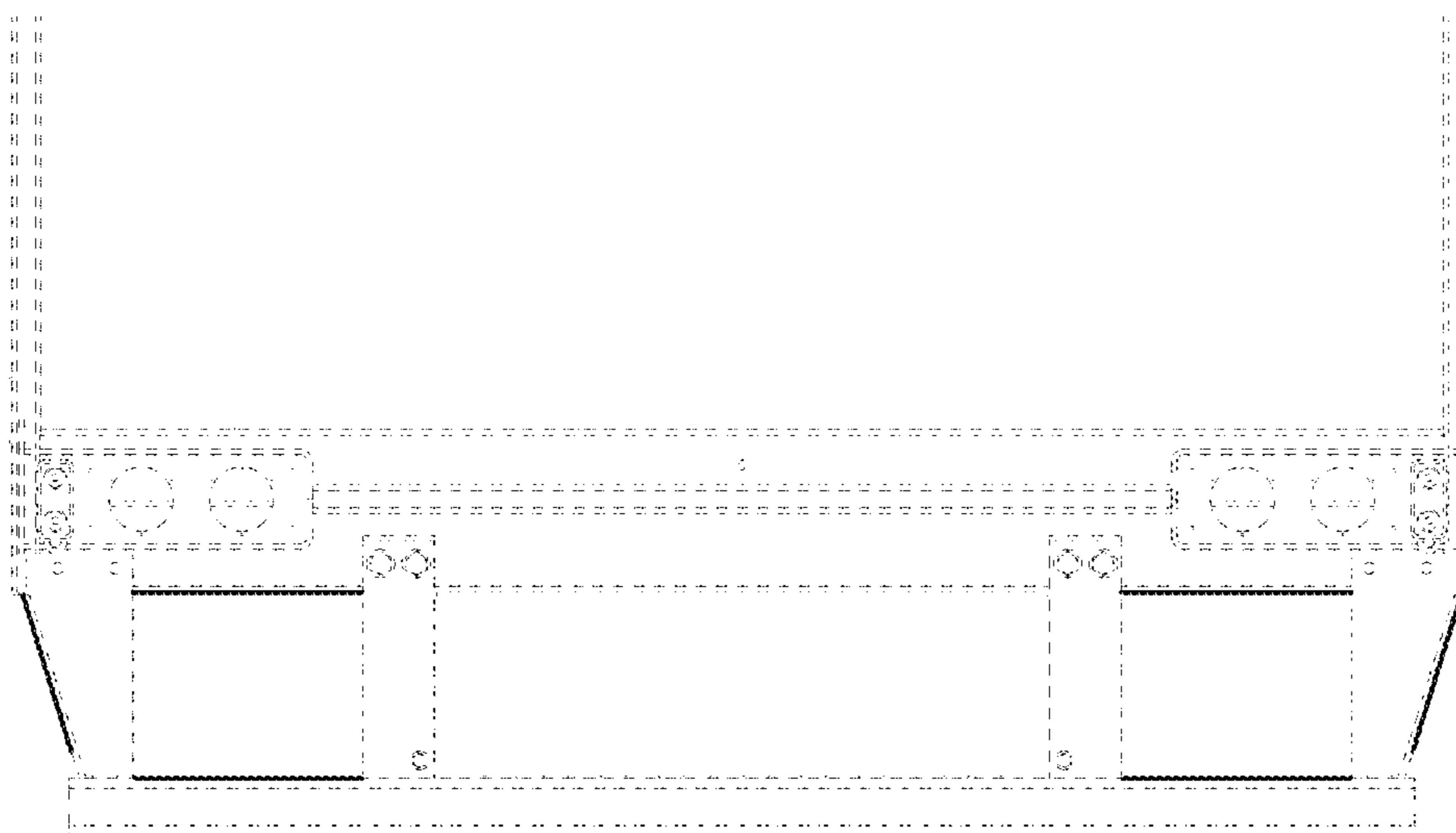
(57) **CLAIM**

We claim the ornamental design for a trailer rear impact guard, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a trailer rear impact guard showing our new design; and, FIG. 2 is a rear view of the trailer rear impact guard of FIG. 1. The portions of the design shown in broken lines disclose environmental structure and form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**



(56)

**References Cited**

OTHER PUBLICATIONS

“Refrigerated Boxes,” downloaded from <http://dynamictruck.com/fr/?page=products3>, publicly available prior to Jun. 3, 2015 (2 pages).

“Not good enough: Underride guards on big rigs can be lifesavers, but most leave passenger vehicle occupants at risk in certain crashes,” downloaded from <http://www.iihs.org/iihs/sr/statusreport/article/48/2/1>, vol. 48, No. 2, dated Mar. 14, 2013 (6 pages).

Auto Safety Expert, “Truck Underride Hazards,” downloaded from [http://www.autosafetyexpert.com/defect\\_truckunderride.php](http://www.autosafetyexpert.com/defect_truckunderride.php), publicly available prior to Jun. 3, 2015 (2 pages).

Image downloaded from [http://www.awjlaw.com/images/shutterstock\\_35651434.jpg](http://www.awjlaw.com/images/shutterstock_35651434.jpg), available Jun. 16, 2015.

AnnaLeah & Mary, Truck Safety, “The Future of Trucking; Who pays for the costs of safer roads?” downloaded from <http://annaleahmary.com/tag/underride-guards/> Jun. 5, 2015 (4 pages).

AnnaLeah & Mary, Truck Safety, “Truck Drivers: Please make sure your underride (rear impact) guards are in good shape!” downloaded from <http://annaleahmary.com/tag/underride-guards/> Jun. 2, 2015 (6 pages).

AnnaLeah & Mary, Truck Safety, “Underride Conversation with David Friedman, NHTSA Deputy Administrator,” downloaded from <http://annaleahmary.com/tag/underride-guards/> May 15, 2015 (3 pages).

AnnaLeah & Mary, Truck Safety, “Be a part of our team to promote safety & save lives,” downloaded from <http://annaleahmary.com/tag/underride-guards/> Apr. 30, 2015 (3 pages).

AnnaLeah & Mary, Truck Safety, “What Came After the AnnaLeah & Mary Stand Up for Truck Safety Petition?” downloaded from <http://annaleahmary.com/tag/underride-guards/> Mar. 8, 2015 (6 pages).

AnnaLeah & Mary, Truck Safety, “Help Us Design the Best Possible Underride Guard,” downloaded from <http://annaleahmary.com/tag/underride-guards/> Dec. 22, 2014 (5 pages).

AnnaLeah & Mary, Truck Safety, “The Passion of This Safety Advocate,” downloaded from <http://annaleahmary.com/tag/underride-guards/> Dec. 20, 2014 (2 pages).

AnnaLeah & Mary, Truck Safety, “Underride Guards; Let’s Move Forward in 2015,” downloaded from <http://annaleahmary.com/tag/underride-guards/> Dec. 20, 2014 (2 pages).

AnnaLeah & Mary, Truck Safety, “IIHS Reports on New Crash Testing for Improved Underride Guards,” downloaded from <http://annaleahmary.com/tag/underride-guards/> Oct. 9, 2014 (2 pages).

\* cited by examiner

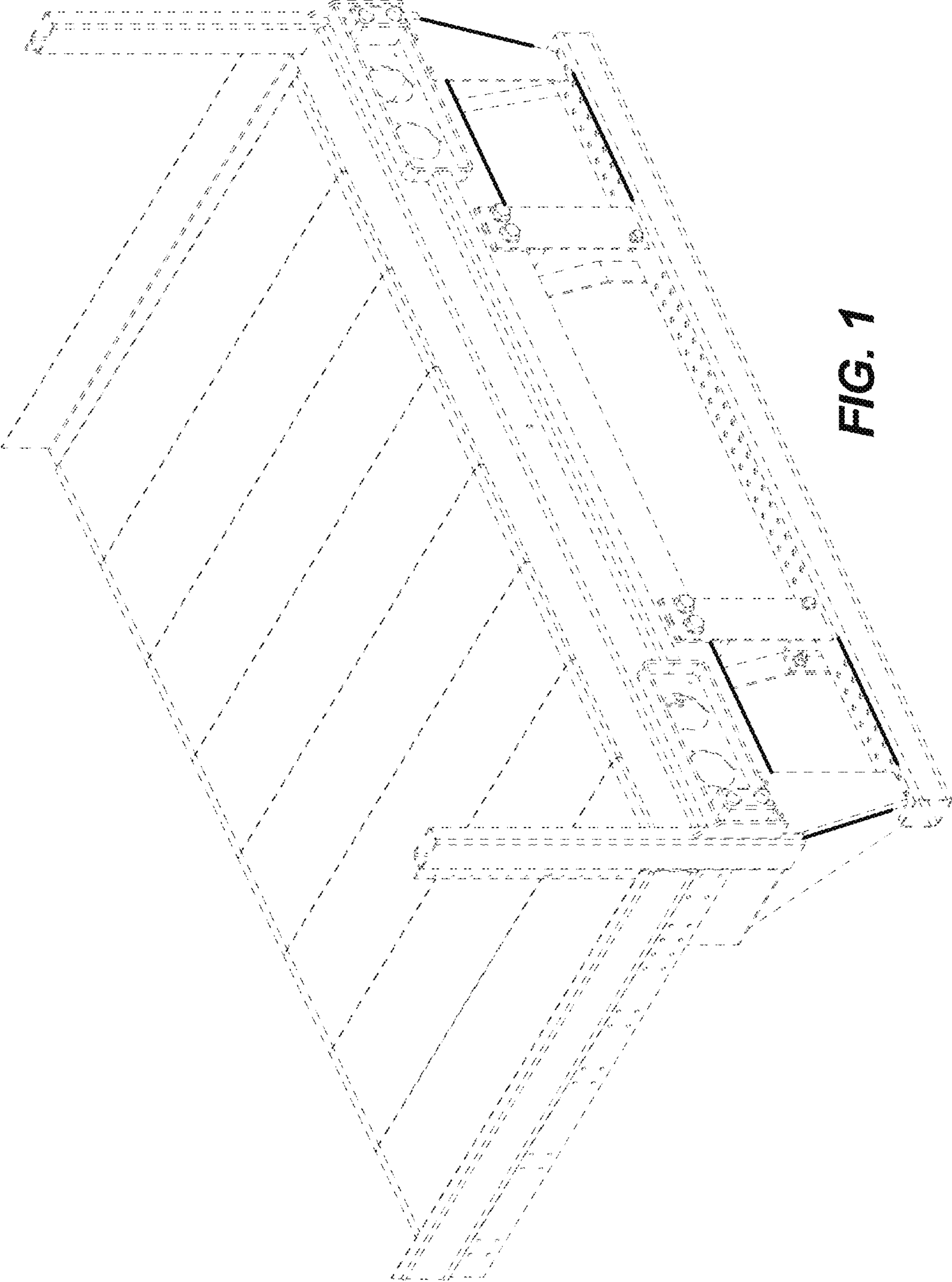


FIG. 1

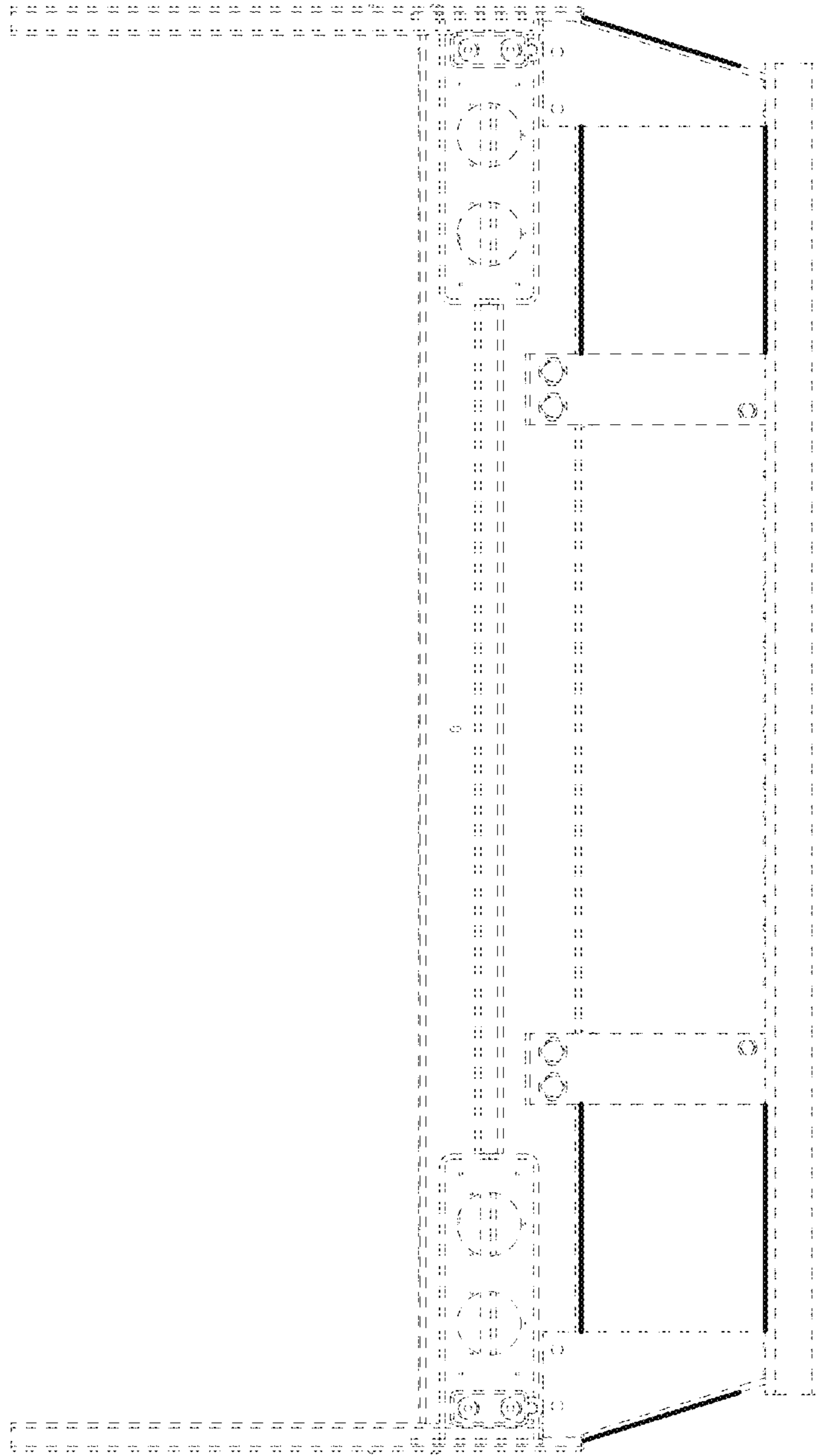


FIG. 2