



GismoPower® MEGA®



**Mobile
Electricity
Generating
Appliance**





OUR ROOF IS SHADED

WE ARE RENTING

IT'S TOO EXPENSIVE

WHY DO PEOPLE NOT GO SOLAR?

WE PLAN TO MOVE

I NEED A NEW ROOF FIRST

REQUIRES HOA APPROVAL

WE NEED A CONTRACTOR

POTENTIAL HURRICANE DAMAGE



DON'T YOU JUST LOVE OUR LITTLE ECO-CAR...

e
STATION

eco
Kindling
Wood

Blower 5.2.20



VS.

Untapped Solar Resources

Residential Driveways - Commercial Parking



Larger solar potential than Rooftop



PLUG-IN PHOTOVOLTAICS



VALUE PROPOSITION

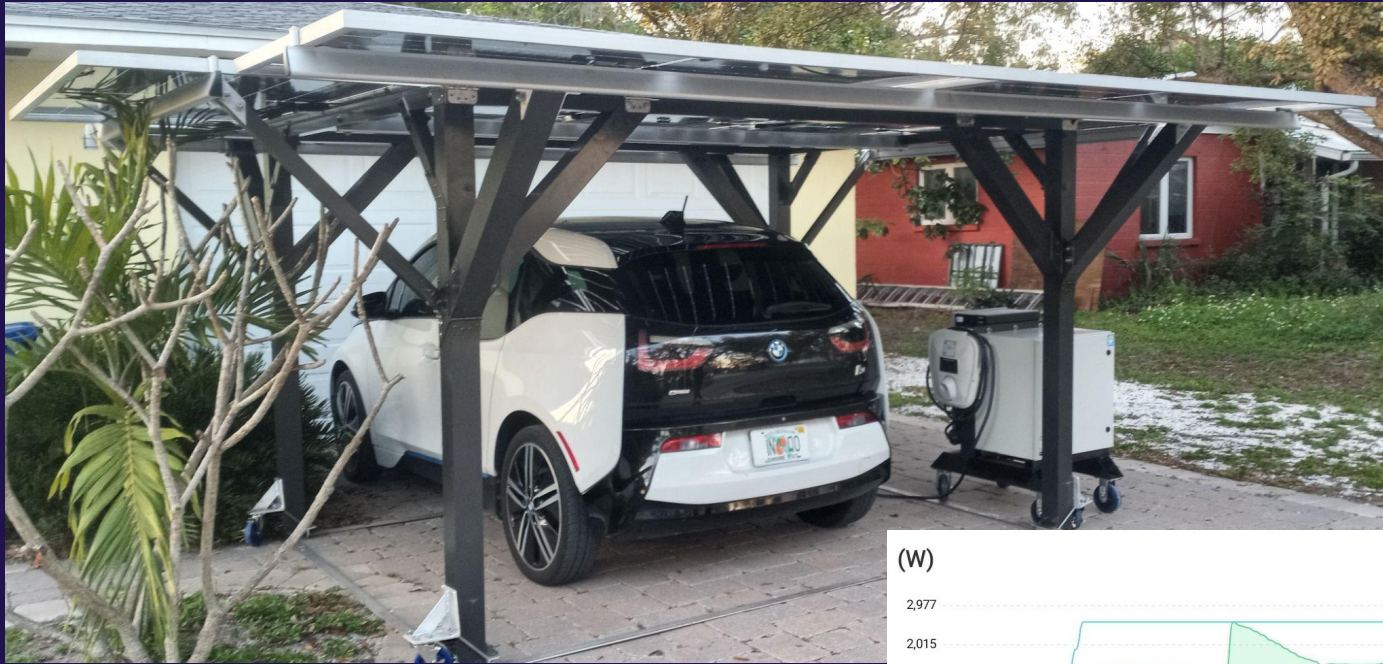
A multi-purpose household appliance:

- Generates Renewable Electricity for adjacent buildings
- Charges Electric Vehicles
- Provides Shade
- Reduced need to upgrade the Electric Power Grid
- Increases Solar Electricity Self-Consumption at distributed locations

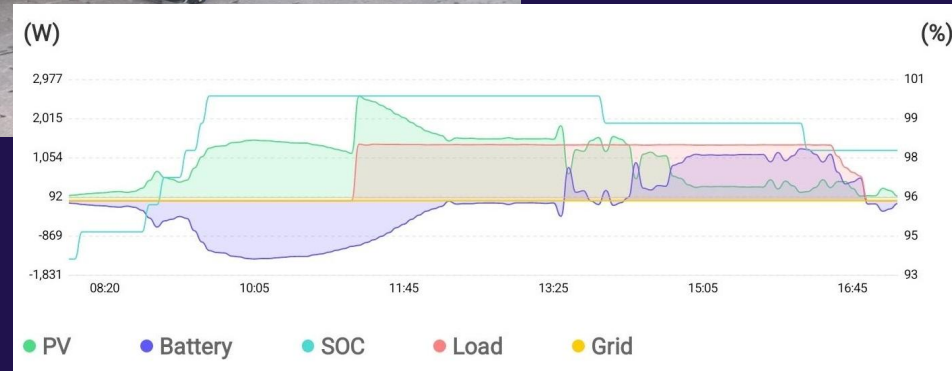


MEGA racks can be moved around and plugged into 240V outlets, as opposed to being permanent installations or structures.

The Fiona By Day one way... By Night another..



OFF-GRID EV Charging





TM

U.S. DEPARTMENT OF ENERGY

SLAC NATIONAL
ACCELERATOR
LABORATORY



U.S. DEPARTMENT OF
ENERGY



SBIR · STTR
America's Seed Fund

A grid of 20 circular portraits of diverse young people, arranged in four rows of five. The background is a blue pattern of circuit-like lines.

Technology Commercialization Internship | U.S. DEPARTMENT OF ENERGY | OFFICE OF Technology Transitions

Meet the recipients!

A grid of 20 circular portraits of diverse young people, arranged in four rows of five.

INNOVATOR STIPEND PROGRAM
sponsored by Qualcomm

#OZYGENIUS

10 OZY GENIUSES 2021

A group photo of 10 diverse young people smiling.

OZY GENIUS AWARDS CHEVROLET

COMPETITION



Powerful, not Portable
(ground-mounted permit)

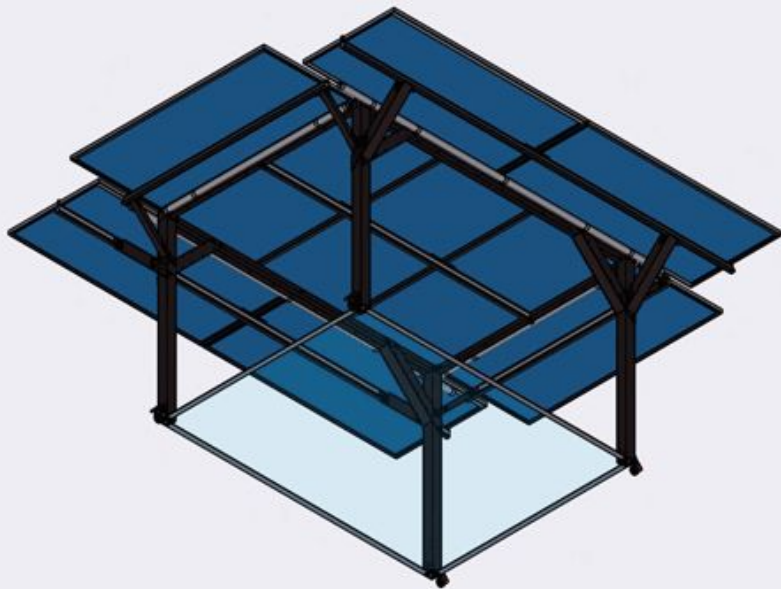


Portable and Powerful = Unaffordable



Portable, not Powerful
(not grid-tied)

Powerful - Portable - Plug-in - Patented



US011515833B1

(12) **United States Patent**
Ginsberg-Klemmt et al.

(10) **Patent No.:** US 11,515,833 B1
(45) **Date of Patent:** Nov. 29, 2022

(54) **PORTABLE SOLAR CARPORT SYSTEM**

FOREIGN PATENT DOCUMENTS

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(72) Inventors: **Antonia Ginsberg-Klemmt**, Sarasota, FL (US); **Achim Ginsberg-Klemmt**, Sarasota, FL (US)

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CN	105971331	*	9/2016
CN	105971331	AI	9/2016
CN	106703465	*	4/2019
CN	106703465	A	4/2019
DE	202012102049	*	7/2012
DE	202012102049	U1	7/2012
EP	3798389	AI	3/2021
JP	3798188	*	7/2016
JP	3201388	U	7/2016
WO	2017030516	AI	2/2017
WO	WO2017030516	*	2/2017

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 17/326,687

(22) Filed: **May 21, 2021**

(51) **Int. Cl.**
H01L 31/044 (2014.01)
H02S 30/10 (2014.01)
H02S 10/50 (2014.01)
H02S 20/30 (2014.01)
E04H 6/02 (2006.01)

(52) **U.S. Cl.**
CPC *H02S 30/10* (2014.12); *E04H 6/025* (2013.01); *H02S 10/50* (2014.12); *H02S 20/30* (2014.12)

(58) **Field of Classification Search.**
CPC — H01L 31/044; Y02E 10/50-60; E04H 6/025; H02S 20/00-32; H02S 30/00-20
See application file for complete search history.

(56) **References Cited**
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CN105971331 English translation (Year: 2016)*
DE202012102049 (Year: 2012)*

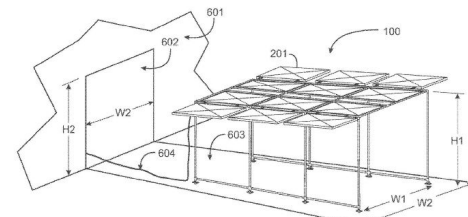
* cited by examiner

Primary Examiner — Bach T. Dinh
(74) Attorney Agent, or Firm — Donald R. Boys; Central Coast Patent Agency LLC

(57) **ABSTRACT**

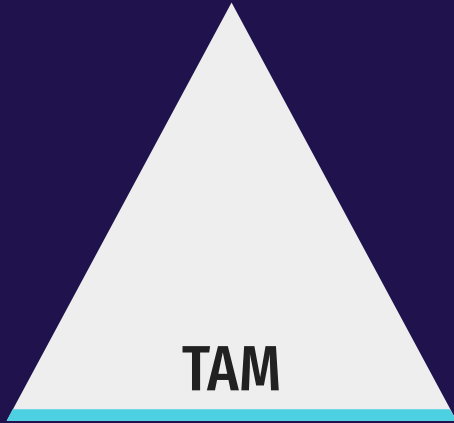
A solar carport system has a framework comprising metal tubing and connection fittings, the framework having a length, a width and a height and rectangular faces on top, ends and sides, a plurality of wheel assemblies at a lowermost location on the framework, enabling the framework to be moved on the wheels on a supporting surface, a plurality of solar panels assembled to the framework in the top rectangular face, such that an active surface of each solar panel faces upward, and electricity and wiring connecting the solar panels to a cable ending in a connector compatible with and connected to an inverter.

10 Claims, 12 Drawing Sheets



\$3.7 B VT

\$1.8 T USA



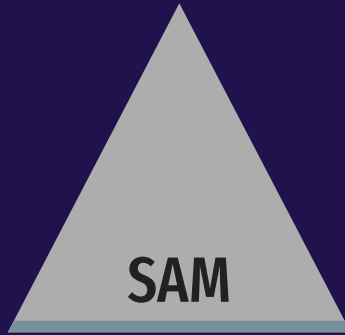
TAM

Total
Available
Market

ALL HOMES x 20K
(Statista.com)

\$2.2 B VT

\$789B USA



SAM

Serviceable
Available
Market

~39.5 M SFDH w/
income between 50K
- 150K

\$16M VT

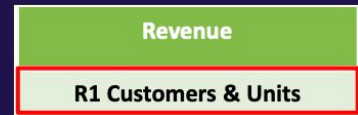
\$800M USA



SOM

Serviceable
Obtainable
Market

40,000 systems
annual manufacturing



Revenue

R1 Customers & Units

Beachhead Market: Sunny Driveways



Cost

C1 Materials

C2 Make (Produce or Process)

C3 Final Product Costs

Manufacturing Cost for MEGA Grid-Tied - No battery

Single Rack (4.86KW - 9 PV modules)

C1 (Materials) \$10,304.48

C2 (Make) \$2,800.00

C3 (Final) \$13,104.48

Dual Rack (9.72KW - 18 PV modules)

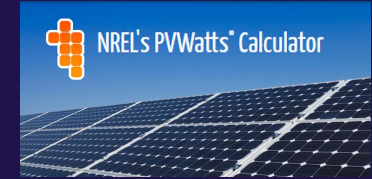
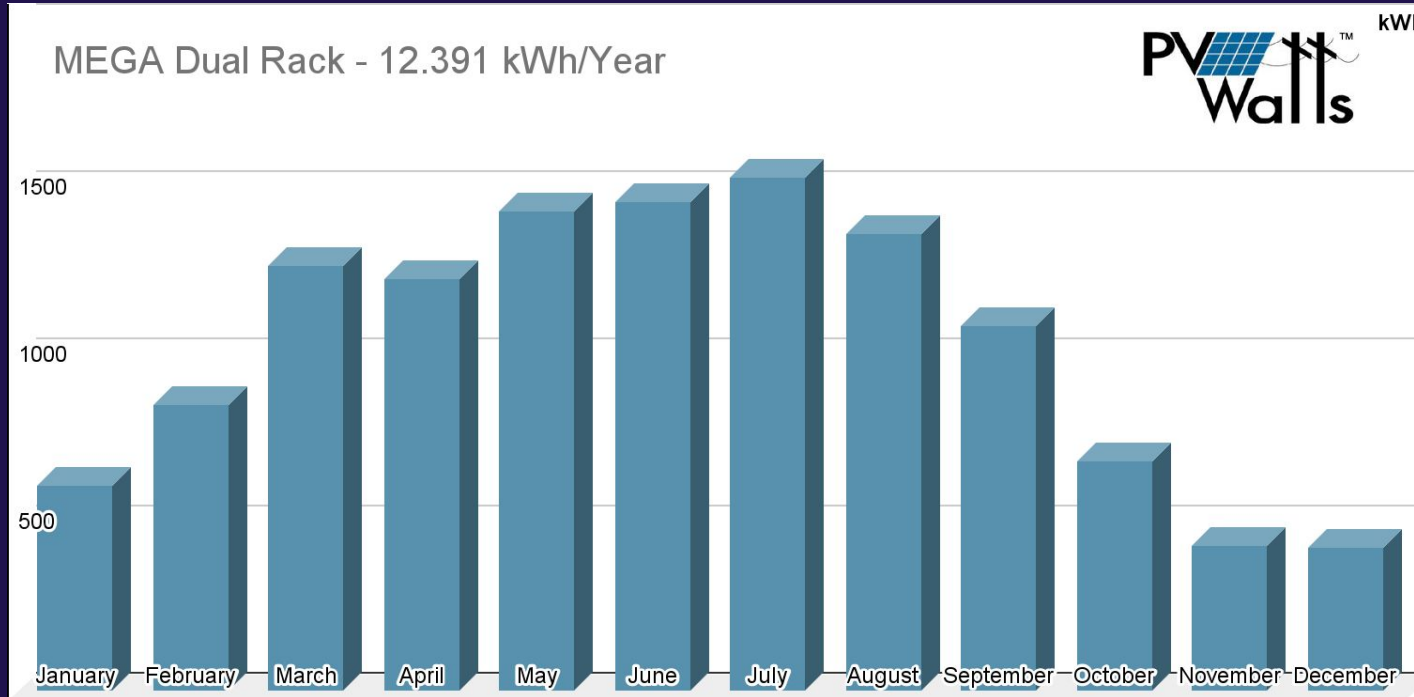
C1 (Materials) \$17,766.14

C2 (Make) \$4,800.00

C3 (Final) \$22,566.14



Solar Generation Potential Example - Burlington/Vermont



GismoPower's MEGA can help Vermont's Utilities reach the ambitious 2030 Net-Zero Energy Goals while reducing the need to upgrade the electric grid for increasing demand by Electric Vehicles & Heat Pumps.





Delivery & Assembly



Florida



North Carolina



Livermore/CA



Walnut Creek/CA

Solar on Wheels®... Coming to Your Driveway

