UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ECOFASTEN SOLAR, LLC AND ESDEC, INC., Petitioners,

V.

UNIRAC, INC., Patent Owner.

Case No. IPR2022-00088

U.S. Patent No. 9,584,062 Issue Date: February 28, 2017 Title: Apparatus for Mounting Photovoltaic Modules

DECLARATION OF BARRY CINNAMON

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Declaration of Barry Cinnamon – '062 Patent

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VIII.	I. WENTWORTH				
	A.	Cla	aim 1	21	
		 1. 2. 3. 4. 	[1.1] a bracket, wherein the bracket defines a slot in a lower portion of the bracket and wherein the slot extends along a longitudinal length of the bracket; [1.2] a clamp securable to the bracket on an upper portion of bracket; [1.3] wherein a first photovoltaic module and a second phototaic module are mountable on a first side of the bracket and a side of the clamp, wherein the first photovoltaic module is adjacent to the second photovoltaic module, and wherein only respective end portion of the first photovoltaic module and the	22 the 26 vol- first	



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	second photovoltaic module is mountable in the first side of the bracket and the first side of the clamp; and28
	5. [1.4] a footer, wherein the footer is variably positionable on the
В.	bracket along the slot
	generally L-shaped and wherein the footer is variably positionable on
	the bracket along the slot via a securement mechanism that is disposed
	through the footer and is received in the slot37
C.	Claim 7: The apparatus according to claim 1, wherein the bracket
	includes a first ledge on the first side of the bracket and a second
	ledge on a second side of the bracket41
D.	Claim 8: The apparatus according to claim 7, wherein the clamp
	includes a first wing on the first side of the clamp and a second wing
	on a second side of the clamp43
E.	Claim 9: The apparatus according to claim 8, wherein the first
	photovoltaic module and the second photovoltaic module are
	mountable on the first side of the bracket and the first side of the
	clamp between the first ledge of the bracket and the first wing of the
	clamp46
F.	Claim 10: The apparatus according to claim 9, wherein a third
	photovoltaic module and a fourth photovoltaic module are mountable
	on the second side of the bracket and the second side of the clamp



Declaration of Barry Cinnamon – '062 Patent between the second ledge of the bracket and the second wing of the clamp, wherein the third photovoltaic module is adjacent to the fourth photovoltaic module, and wherein only a respective end portion of the third photovoltaic module and the fourth photovoltaic module is mountable in the second side of the bracket and the second side of the Claim 11: The apparatus according to claim 10, wherein the first ledge of the bracket, the second ledge of the bracket, the first wing of the clamp, and the second wing of the clamp each extend along an entire longitudinal length of the apparatus......50 Claim 12: The apparatus according to claim 11, wherein a plurality of attachment mechanisms secure the clamp to the bracket on the upper portion of the bracket.52 Claim 14: The apparatus according to claim 1, wherein the bracket

- I. defines a cavity between the upper portion of the bracket and the lower portion of the bracket.54
- J. Claim 17: The apparatus according to claim 1, further comprising a trim assembly, wherein the trim assembly includes a trim and a trim mounting bracket, wherein the trim mounting bracket is mountable on



G.

H.

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the bracket, and wherein	the trim is mountable on the trim mounting
bracket	56
C1 10 FD1	1 1. 17. 1

- K. Claim 18: The apparatus according to claim 17, wherein a longitudinal length of the trim is longer than the longitudinal length of
- L. Claim 20: The apparatus according to claim 17, wherein a top portion of the trim is electrically bonded to a top portion of the trim mounting bracket and wherein a bottom portion of the trim mounting bracket is electrically bonded to the bracket......61
- Μ. Claim 26: The apparatus according to claim 7, wherein the first ledge extends outwardly from the first side of the bracket and wherein the second ledge extends outwardly from the second side of the
- N. Claim 27: The apparatus according to claim 1 in combination with a first photovoltaic module and a second photovoltaic module, wherein the first photovoltaic module and the second photovoltaic module are mounted on the first side of the bracket and the first side of the clamp and wherein the first photovoltaic module is adjacent to the second
- Claim 28 Error! Bookmark not defined. О.



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