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(54) Title: A STRUCTURAL PHOTOVOLTAIC (PV) PANEL AND REINFORCED FRAME ELEMENT ADAPTED FOR MOD-
ULAR CONSTRUCTION AND ENCLOSURES AND PV DEVICES FORMED THEREFROM

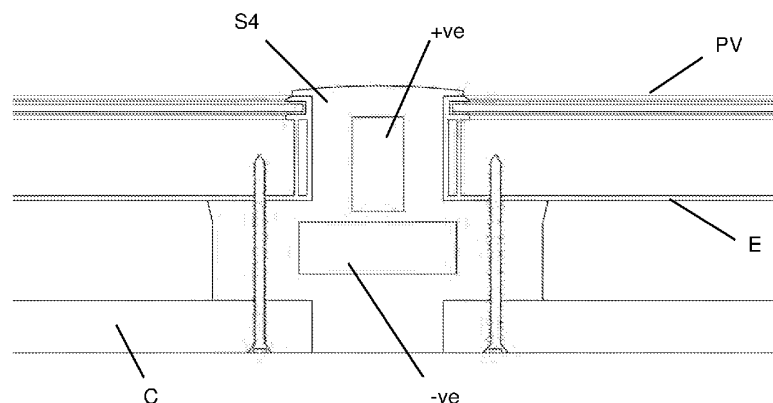


FIG 4c

(57) Abstract: The invention describes a structural frame element adapted to accommodate photovoltaic (PV) modules to form a photovoltaic panel capable of being used as a construction element. A framed PV panel adapted to be coupled to further framed PV panels to form an array for mounting on structure surfaces and to form walls, roofs and doors of self-supporting structures, enclosures and equipment cabinets. The invention describes a structural frame element adapted to accommodate photovoltaic (PV) modules to form a PV panel capable of being used as a construction element to facilitate the coupling of framed PV panels together for fixing PV panels to existing structures and for forming said self-supporting structures, enclosures and equipment cabinets. Reinforcement members embedded within the frame elements provide busbar connectivity for the PV panels.

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