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Tyan et al.

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[54] **INTEGRATED ARRAY OF PHOTOVOLTAIC CELLS HAVING MINIMIZED SHORTING LOSSES**

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[52] **U.S. Cl.** **136/244**; 29/572; 29/580; 29/583; 136/249; 357/30

[58] **Field of Search** 136/244, 249, 260, 258; 29/572, 580, 583; 427/74; 357/30

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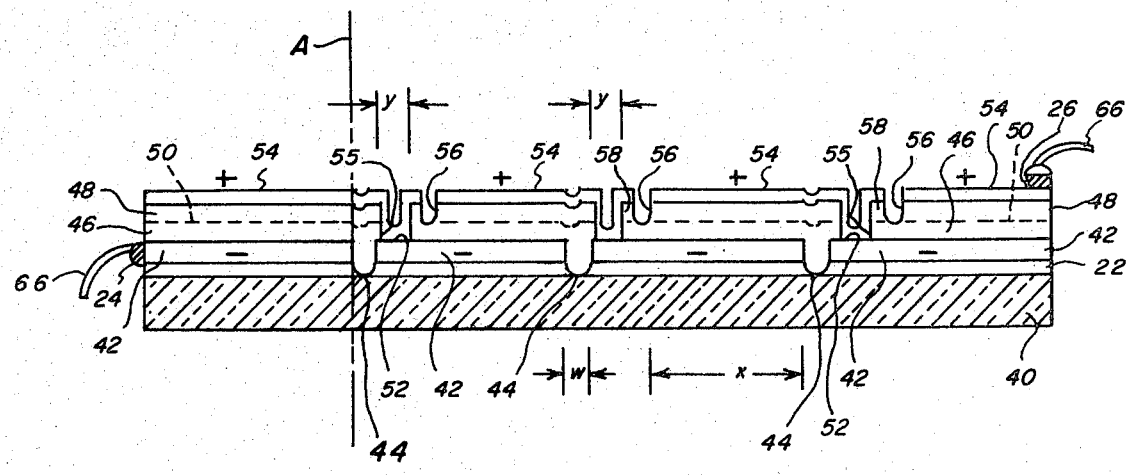
[57] **ABSTRACT**

There are disclosed an integrated array of photovoltaic cells each comprising, on a support, a first electrode segment, a semiconductor segment, and a second electrode segment; and a process for making it, wherein no insulating material need be applied to exposed semiconductor materials before applying the second electrode segment. The array is composed of sub-cells, groups of which are series-connected to form sub-arrays. The sub-arrays are in turn connected in parallel so that a short in any one sub-cell only minimally affects the output of the entire array.

11 Claims, 8 Drawing Figures