



US 20240213378A1

(19) **United States**(12) **Patent Application Publication**  
**VERVAART**(10) **Pub. No.: US 2024/0213378 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **CONTROL CIRCUITRY OF A  
MICROCONTROLLER OF A  
PHOTOVOLTAIC SYSTEM WITHOUT  
BATTERY AND ASSOCIATED METHOD AND  
DEVICES****Publication Classification**

(51) **Int. Cl.**  
*H01L 31/02* (2006.01)  
*G01R 31/317* (2006.01)  
*G05F 1/56* (2006.01)  
*H01L 31/05* (2014.01)

(52) **U.S. Cl.**  
CPC .. *H01L 31/02021* (2013.01); *G01R 31/31703*  
(2013.01); *G05F 1/562* (2013.01); *H01L 31/05*  
(2013.01)

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aux énergies alternatives**, Paris (FR)(21) Appl. No.: **18/545,714**(22) Filed: **Dec. 19, 2023**(30) **Foreign Application Priority Data**

Dec. 20, 2022 (FR) ..... 22 13992

(57) **ABSTRACT**

A control circuit of a controller of a photovoltaic system is provided, the control circuit including an input, an output, a start unit consisting of a power dissipation circuit, a voltage regulation circuit and a comparator, a first switch having a position wherein the start unit is connected to the input and an inverse position, and a second switch having a position wherein the input and the output are not connected and an inverse position. The comparator compares the voltages of the dissipation circuit and of the regulation circuit, the comparator outputting a command voltage of the two switches on the basis of the comparison.

