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(19) **United States**(12) **Patent Application Publication**
Hsu(10) **Pub. No.: US 2024/0222968 A1**(43) **Pub. Date: Jul. 4, 2024**(54) **MULTI-POWER SUPPLY SYSTEM AND
MULTI-POWER SUPPLY METHOD**(52) **U.S. Cl.**CPC *H02J 1/102* (2013.01); *H02J 9/061*
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ABSTRACT(72) Inventor: **Kuan-Wei Hsu**, New Taipei City (TW)(73) Assignee: **Wistron Corporation**, New Taipei City
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A multi-power supply system and a multi-power supply method are provided. The multi-power supply system includes power suppliers and a controller. The controller receives an information of a system power, increases a number of at least one output power supplier of the power suppliers according to a rise of the system power, and decreases the number of the at least one output power supplier of the power suppliers according to a drop of the system power. Each of the at least one output power supplier generates a first power and provides a supplying power with a preset power value according to the first power. At least one of the power suppliers other than the output power supplier as a non-output power supplier generates a second power and stops providing the supplying power according to the second power.

