US 20230231408A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0231408 A1**

Ansett (43) **Pub. Date: Jul. 20, 2023**

(54) **ADAPTABLE REDUNDANT POWER**

(71) Applicant: **Edward Michael John Ansett**, South Littleton (GB)

(72) Inventor: **Edward Michael John Ansett**, South Littleton (GB)

(21) Appl. No.: **18/114,460**

(22) Filed: **Feb. 27, 2023**

Related U.S. Application Data

(63) Continuation-in-part of application No. 17/342,874, filed on Jun. 9, 2021, now Pat. No. 11,605,969, which is a continuation of application No. 16/653,157, filed on Oct. 15, 2019, now Pat. No. 11,063,470.

(60) Provisional application No. 62/746,796, filed on Oct. 17, 2018.

Publication Classification

(51) **Int. Cl.**

H02J 9/06	(2006.01)
G06F 1/30	(2006.01)
G06F 1/26	(2006.01)

(52) **U.S. Cl.**

CPC ***H02J 9/061*** (2013.01); ***G06F 1/30*** (2013.01); ***G06F 1/263*** (2013.01); *H02J 9/068* (2020.01)

(57) **ABSTRACT**

An a adaptable redundant power (ARP) platform for a distributed redundant infrastructure includes: a plurality of load centers, wherein each load center includes a pair of corresponding load center switches, and wherein each load center has a priority; a plurality of duty power modules (DPMs), each coupled to a first subset of load centers via a first set of switches using a preferred setting (PS) input and to a second subset of load centers via a second set of switches using an alternate setting (AS) input, wherein each switch includes a transfer mechanism configured to transfer power from the PS input to the AS input in response to a failure of a DPM coupled to the PS input; and a manager that, in response to a detected failure of a DPM, disables the transfer mechanism of a subset of switches whose AS input is powered by a failed DPM.