



US 20230231392A1

(19) **United States**

(12) **Patent Application Publication**
Xue

(10) **Pub. No.: US 2023/0231392 A1**

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

(54) **MULTIPLE PORT POWER SUPPLY SYSTEM**

Publication Classification

(71) Applicant: **UT-Battelle, LLC**, Oak Ridge, TN
(US)

(51) **Int. Cl.**
H02J 7/00 (2006.01)

(72) Inventor: **Lingxiao Xue**, Oak Ridge, TN (US)

(52) **U.S. Cl.**
CPC **H02J 7/0019** (2013.01); **H02J 7/0024**
(2013.01)

(21) Appl. No.: **18/095,765**

(22) Filed: **Jan. 11, 2023**

(57) **ABSTRACT**

Related U.S. Application Data

(60) Provisional application No. 63/299,511, filed on Jan. 14, 2022, provisional application No. 63/299,517, filed on Jan. 14, 2022.

A power sharing multiport charger or a power sharing multiport supply is provided. The power sharing may be provided via time division multiplexing of power output from a switch mode power supply.

