US 20230231397A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0231397 A1**

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

(54) **BATTERY POWERED SYSTEM AND BATTERY POWERED METHOD**

(71) Applicant: **ATOP TECHNOLOGIES, INC.**, Hsinchu (TW)

(72) Inventors: **Yuan Chen Chan**, Hsinchu County (TW); **Chih-Ke Wang**, Taoyuan City (TW); **Chin-Hsing Chang**, New Taipei City (TW)

(73) Assignee: **ATOP TECHNOLOGIES, INC.**, Hsinchu (TW)

(21) Appl. No.: **17/706,615**

(22) Filed: **Mar. 29, 2022**

Related U.S. Application Data

(60) Provisional application No. 63/299,410, filed on Jan. 14, 2022.

Publication Classification

(51) **Int. Cl.**
H02J 7/00 (2006.01)
H01R 13/62 (2006.01)

(52) **U.S. Cl.**
CPC ***H02J 7/0063*** (2013.01); ***H02J 7/0013*** (2013.01); ***H02J 7/0042*** (2013.01); ***H01R 13/6205*** (2013.01)

(57) **ABSTRACT**

A battery powered system and a battery powered method are provided. The battery powered method includes: disposing a first power connector and a first magnet on a first connecting face of a first electronic device; and disposing a second power connector and a second magnet on a second connecting face of a first battery device, wherein the first power connector is connected to the second power connector in response to the first magnet and the second magnet being attached to each other, and the first battery device powers the first electronic device via the first power connector.