

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2022/0369467 A1 CHEN et al.

(43) **Pub. Date:**

Nov. 17, 2022

(54) CIRCUIT BOARD, METHOD FOR MANUFACTURING THE SAME

- (71) Applicants: Avary Holding (Shenzhen) Co., Limited., Shenzhen (CN); HongQiSheng Precision Electronics (QinHuangDao) Co.,Ltd., Qinhuangdao (CN); GARUDA TECHNOLOGY CO., LTD., New Taipei (TW)
- (72) Inventors: **PO-YUAN CHEN**, New Taipei (TW); YONG-CHAO WEI, Qinhuangdao (CN)
- (21) Appl. No.: 17/330,982

(30)

- (22) Filed: May 26, 2021
- Foreign Application Priority Data May 14, 2021 (CN) 202110527146.1

Publication Classification

(51) Int. Cl. H05K 3/00 (2006.01)H05K 3/28 (2006.01)H05K 1/03 (2006.01)

(52) U.S. Cl. CPC H05K 3/0085 (2013.01); H05K 3/287 (2013.01); H05K 1/03 (2013.01); H05K 2201/0183 (2013.01); H05K 2201/09036 (2013.01)

ABSTRACT (57)

A circuit board includes a circuit substrate, at least one metal pad, and a tin bar corresponding to each of the at least one metal pad. Each of the at least one metal pad is formed on a side of the circuit substrate and is electrically connected to the circuit substrate. A surface of the metal pad facing away from the circuit substrate is recessed toward the circuit substrate to from a recess. The tin bar is received in the recess. A method for manufacturing a circuit board is also provided.

