

US 20230231305A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2023/0231305 A1 CHIANG (43) Pub. Date: Jul. 20, 2023

(54) ANTENNA MODULE AND METHOD FOR MANUFACTURING THE SAME

- (71) Applicant: **MEDIATEK INC.**, Hsinchu City (TW)
- (72) Inventor: Chung-Hsin CHIANG, Hsinchu City (TW)
- (21) Appl. No.: 18/069,293
- (22) Filed: Dec. 21, 2022

Related U.S. Application Data

(60) Provisional application No. 63/299,453, filed on Jan. 14, 2022.

Publication Classification

(51) Int. Cl. H01Q 1/48 (2006.01) H01Q 1/38 (2006.01) H01Q 1/50 (2006.01)

(52) U.S. Cl. CPC *H01Q 1/48* (2013.01); *H01Q 1/38* (2013.01); *H01Q 1/50* (2013.01)

(57) ABSTRACT

An antenna module and a method for manufacturing an antenna module are provided. The antenna module includes a first dielectric substrate, a first antenna and a second antenna. The first dielectric substrate has a top surface, a bottom surface and a first side surface between the top surface and the bottom surface. The first antenna is formed on the top surface of the first dielectric substrate. The second antenna is formed on the first side surface of the first dielectric substrate.

