



US 20220369465A1

(19) **United States**(12) **Patent Application Publication**
Petelik et al.(10) **Pub. No.: US 2022/0369465 A1**(43) **Pub. Date: Nov. 17, 2022**(54) **METHODS AND APPARATUSES FOR
INTERFACING MICROWAVE CIRCUITS**(60) Provisional application No. 62/966,621, filed on Jan.
28, 2020, provisional application No. 62/837,464,
filed on Apr. 23, 2019.(71) Applicant: **The Government of the United States,
as represented by the Secretary of the
Navy, Arlington, VA (US)****Publication Classification**(72) Inventors: **Thomas Petelik, Alexandria, VA (US);
Steven Bode, Alexandria, VA (US);
Matthew Anderson, Hanover, MD
(US)**(51) **Int. Cl.**
H05K 1/18 (2006.01)
H01R 12/71 (2006.01)(52) **U.S. Cl.**
CPC **H05K 1/181** (2013.01); **H01R 12/716**
(2013.01); **H05K 2201/10189** (2013.01)(21) Appl. No.: **17/879,484**(57) **ABSTRACT**(22) Filed: **Aug. 2, 2022**

An apparatus for interfacing with an RF/microwave subsystem is provided. The apparatus includes a printed circuit board that includes: a controller, and a connector constructed to provide control signals and power signals to a subsystem in accordance with instructions from the controller, and a mechanical interface constructed to provide a mechanical connection between the subsystem and the printed circuit board.

Related U.S. Application Data(63) Continuation of application No. 16/857,129, filed on
Apr. 23, 2020, now Pat. No. 11,412,617.