



(12) **Patent Application Publication**  
**GOLDBLATT et al.**

(43) **Pub. Date:** **Dec. 29, 2022**

(2006.01)

(2006.01)

(52) U.S. Cl.

CPC ..... ***H03F 3/245*** (2013.01); ***H03G 3/3042***  
(2013.01); ***G01R 19/04*** (2013.01); ***H03F***  
***1/0238*** (2013.01); ***H03F 3/195*** (2013.01);  
***H04B 1/0475*** (2013.01); ***H03F 2200/435***  
(2013.01); ***H03F 2200/451*** (2013.01); ***H03F***  
***2200/474*** (2013.01); ***H04B 2001/0416***  
(2013.01)

(57)

## ABSTRACT

A peak detector for a power amplifier is provided that includes a threshold voltage detector configured to pulse a detection current in response to an amplified output signal from the amplifier exceeding a peak threshold. A plurality of such peak detectors may be integrated with a corresponding plurality of power amplifiers in a transmitter. Should any peak detector assert an alarm signal or more than a threshold number of alarm signals during a given period, a controller reduces a gain for the plurality of power amplifiers.

(22) Filed: **Jun. 23, 2021**

### Publication Classification

(51) **Int. Cl.**

*H03F 3/24* (2006.01)  
*H03G 3/30* (2006.01)  
*G01R 19/04* (2006.01)  
*H03F 1/02* (2006.01)

