



US 20230232331A1

(19) **United States**

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

(10) **Pub. No.: US 2023/0232331 A1**

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

(54) **PHYSICAL DOWNLINK CONTROL  
CHANNEL MONITORING IN WIRELESS  
COMMUNICATION SYSTEM**

(60) Provisional application No. 62/826,008, filed on Mar. 29, 2019, provisional application No. 62/826,028, filed on Mar. 29, 2019.

(71) Applicant: **LG ELECTRONICS INC.**, Seoul  
(KR)

**Publication Classification**

(72) Inventors: **Inkwon SEO**, Seoul (KR); **Joonkui  
AHN**, Seoul (KR)

(51) **Int. Cl.**  
**H04W 76/28** (2006.01)

(73) Assignee: **LG ELECTRONICS INC.**, Seoul  
(KR)

(52) **U.S. Cl.**  
CPC ..... **H04W 76/28** (2018.02)

(21) Appl. No.: **18/122,017**

(57) **ABSTRACT**

(22) Filed: **Mar. 15, 2023**

**Related U.S. Application Data**

(63) Continuation of application No. 17/472,278, filed on Sep. 10, 2021, now Pat. No. 11,638,214, which is a continuation of application No. PCT/KR2020/004206, filed on Mar. 27, 2020.

Provided are a method by which a terminal monitors a downlink control channel in a wireless communication system and a corresponding device. An offset-based time window is set before a conventional DRX-on period for monitoring PDCCH, and PSPDCCH for notifying of power saving information in the time window is monitored. Whether to actually monitor the PDCCH in the DRX-on period can be determined on the basis of the PS-PDCCH.

