

# (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2023/0232380 A1 Bhamri et al.

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

### (54) TIME-DOMAIN REPETITION OF A SET OF TRANSPORT BLOCKS

(71) Applicant: Lenovo (Singapore) Pte. Ltd., New Tech Park (SG)

Inventors: Ankit Bhamri, Rödermark (DE);

Hyejung Jung, Northbrook, IL (US); Alexander Johann Maria Golitschek Edler von Elbwart, Darmstadt (DE)

18/008,414 (21) Appl. No.:

(22) PCT Filed: Jun. 4, 2021

(86) PCT No.: PCT/IB2021/054926

§ 371 (c)(1),

(2) Date: Dec. 5, 2022

### Related U.S. Application Data

(60) Provisional application No. 63/034,881, filed on Jun. 4, 2020.

#### **Publication Classification**

(51) Int. Cl. H04W 72/0446 (2006.01)

H04W 72/1263 (2006.01)H04W 72/23 (2006.01)

U.S. Cl.

(57)

CPC ... H04W 72/0446 (2013.01); H04W 72/1263 (2013.01); H04W 72/23 (2023.01)

ABSTRACT

Apparatuses, methods, and systems are disclosed for indicating a repetition scheme for a scheduled set of TBs. One apparatus includes a receiver that receives control signaling containing scheduling information for the transmission of a set of transport blocks ("TBs") over a plurality of transmission occasions and receives repetition information that schedules time-domain repetition of the set of TBs. The apparatus includes a processor that determines, for each TB in the set of TBs, whether to apply the time-domain repetition based on time-domain resources allocated for each TB and controls a transmitter to transmit the set of TBs in accordance with the scheduling information and the repetition information.

