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(19) **United States**(12) **Patent Application Publication**
Cui et al.(10) **Pub. No.: US 2023/0232354 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **REFERENCE CELL TIMING
DETERMINATION**(71) Applicant: **Apple Inc.**, Cupertino, CA (US)(72) Inventors: **Jie Cui**, San Jose, CA (US); **Qiming Li**, Beijing (CN); **Chunxuan Ye**, San Diego, CA (US); **Dawei Zhang**, Saratoga, CA (US); **Haitong Sun**, Cupertino, CA (US); **Hong He**, San Jose, CA (US); **Manasa Raghavan**, Sunnyvale, CA (US); **Sayed Ali Akbar Fakoorian**, San Diego, CA (US); **Xiang Chen**, Campbell, CA (US); **Yang Tang**, San Jose, CA (US)(73) Assignee: **Apple Inc.**, Cupertino, CA (US)(21) Appl. No.: **17/442,080**(22) PCT Filed: **Mar. 31, 2021**(86) PCT No.: **PCT/CN2021/084709**

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(57)

ABSTRACT

The present application relates to devices and components including apparatus, systems, and methods to determine availability of a reference cell for determining a timing of an uplink transmission in a user equipment transmission occasion.

100	102	104
DRX cycle		PHY measurement time interval
No DRX		$K_p \times \text{SMTC period} \times \text{CSSF}_{\text{intra}}$
DRX cycle $\leq 320\text{ms}$		$1.5 \times K_p \times \max(\text{SMTC period}, \text{DRX cycle}) \times \text{CSSF}_{\text{intra}}$
DRX cycle $> 320\text{ms}$		$K_p \times \text{DRX cycle} \times \text{CSSF}_{\text{intra}}$