



US 20230232337A9

(19) **United States**
(12) **Patent Application Publication**
Piipponen et al.

(10) **Pub. No.: US 2023/0232337 A9**
(48) **Pub. Date: Jul. 20, 2023**
CORRECTED PUBLICATION

(54) **ADDITIONAL MAXIMUM POWER
REDUCTION FOR UPLINK TRANSMISSION
FOR WIRELESS NETWORKS**

(60) Provisional application No. 62/653,423, filed on Apr. 5, 2018.

Publication Classification

(71) Applicant: **Nokia Technologies Oy**, Espoo (FI)

(51) **Int. Cl.**
H04W 52/24 (2006.01)
H04L 5/00 (2006.01)
H04W 52/14 (2006.01)
H04W 52/36 (2006.01)

(72) Inventors: **Antti Piipponen**, Helsinki (FI); **Vesa Lehtinen**, Tampere (FI); **Petri Vasenkari**, Turku (FI); **Jaakko Marttila**, Tampere (FI)

(52) **U.S. Cl.**
CPC **H04W 52/243** (2013.01); **H04L 5/0007** (2013.01); **H04L 5/0039** (2013.01); **H04W 52/146** (2013.01); **H04W 52/36** (2013.01)

(21) Appl. No.: **17/886,941**

(22) Filed: **Aug. 12, 2022**

Prior Publication Data

(15) Correction of US 2022/0394627 A1 Dec. 8, 2022
See (63) Related U.S. Application Data.

(65) US 2022/0394627 A1 Dec. 8, 2022

Related U.S. Application Data

(63) Continuation of application No. 16/982,386, filed on Sep. 18, 2020, now Pat. No. 11,463,965, filed as application No. PCT/FI2019/050254 on Mar. 28, 2019.

(57) **ABSTRACT**

A technique for power control including receiving, by a user device, a resource block allocation for uplink transmission that includes one or more resource blocks within a frequency channel; determining at least one resource allocation region or which an uplink resource block allocation within the resource allocation region will require an additional maximum power reduction (e.g., to reduce interference to a protected frequency band); and applying, by the user device, the additional maximum power reduction for a transmission power of the user device based on the resource block allocation being within the at least one resource allocation region.

