

(12) International Application Status Report

Received at International Bureau: 09 December 2019 (09.12.2019)

Information valid as of: 08 September 2020 (08.09.2020)

Report generated on: 30 September 2020 (30.09.2020)

(10) Publication number:

WO2020/112606

(43) Publication date:

04 June 2020 (04.06.2020)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/US2019/062948

(22) Filing Date:

25 November 2019 (25.11.2019)

(25) Filing language:

English (EN)

(31) Priority number(s):

62/773,123 (US)

(31) Priority date(s):

29 November 2018 (29.11.2018)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

H04W 48/02 (2009.01); *H04L 12/859* (2013.01); *H04W 28/02* (2009.01); *H04W 74/08* (2009.01)

(71) Applicant(s):

GOOGLE LLC [US/US]; 1600 Amphitheatre Parkway Mountain View, California 94043 (US) *(for all designated states)*

(72) Inventor(s):

CHEN, Teming; 1600 Amphitheatre Parkway Mountain View, California 94043 (US)

(74) Agent(s):

KASHIWADA, Erin L.; 291 E. Shore Drive, Suite 200 Eagle, Idaho 83616 (US)

(54) Title (EN): INFORMING AN UPPER LAYER OF BARRING ALLEVIATION FOR MULTIPLE ACCESS CLASSES

(54) Title (FR): INFORMATION À UNE COUCHE SUPÉRIEURE D'UN ASSOUPPLISSEMENT D'INTERDICTION POUR DE MULTIPLES CLASSES D'ACCÈS

(57) Abstract:

(EN): This document describes techniques and devices for informing an upper layer of barring alleviation for multiple access classes. In some situations, a radio resource control (RRC) layer (404) of a user equipment (UE) can provide to an upper layer (402) of the UE a barring message (442) that indicates at least two access classes are barred in response to receiving a rejection message (432) from a random access network (RAN) (140). Responsive to the RRC layer (404) determining that the at least two access classes are no longer barred, the RRC layer (404) can provide the upper layer (402) an alleviation message (456) that indicates barring of the least two access classes is alleviated. By informing the upper layer of multiple access classes using the alleviation message (456), miscommunications regarding barring alleviation of the access classes can be avoided between the RRC layer (404) and the upper layer (402).

(FR): La présente invention concerne des techniques et des dispositifs pour informer une couche supérieure d'un assouplissement d'interdiction pour de multiples classes d'accès. Dans certaines situations, une couche de commande de ressource radio (RRC) (404) d'un équipement d'utilisateur (UE) peut fournir à une couche supérieure (402) de l'UE un message d'interdiction (442) qui indique qu'au moins deux classes d'accès sont interdites en réponse à la réception d'un message de rejet (432) en provenance d'un réseau d'accès aléatoire (RAN) (140). Quand la couche de RRC (404) détermine que les au moins deux classes d'accès ne sont plus interdites, la couche de RRC (404) peut fournir à la couche supérieure (402) un message d'assouplissement (456) qui indique qu'une interdiction des au moins deux classes d'accès est assouplie. Par le fait d'informer la couche supérieure sur les multiples classes d'accès à l'aide du message d'assouplissement (456), des communications erronées concernant l'assouplissement d'interdiction des classes d'accès peuvent être évitées entre la couche de RRC (404) et la couche supérieure (402).

International search report:

Received at International Bureau: 17 February 2020 (17.02.2020) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Chapter II demand received: 21 August 2020 (21.08.2020)

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM

Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))