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(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

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(54) **Title:** PRIORITY-BASED FEEDBACK TRIGGERING

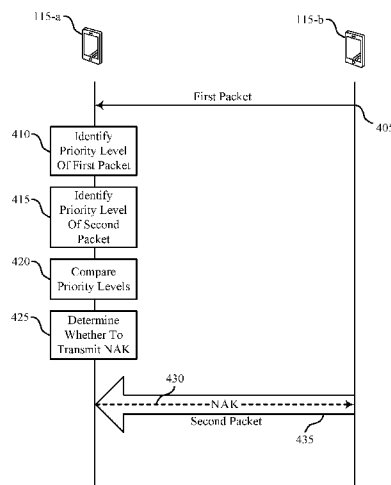


FIG. 4

(57) **Abstract:** Methods, systems, and devices for wireless communication are described. A user equipment (UE) may utilize priority levels associated with packets or transmissions to determine whether to transmit feedback for a received transmission. The UE may compare priority levels between a transmission subject to a feedback condition and a transmission scheduled to be received when the feedback is scheduled to be transmitted to determine whether to send the feedback. The UE may communicate with the transmitting device according to the comparison and the determining. The UE may determine signal conditions causing a NAK and determine to send the NAK based on the signal conditions.

Published:

- *with international search report (Art. 21(3))*
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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L1/18 H04L1/00
ADD.
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
H04L H04W

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2016/330011 A1 (LEE MOON-IL [US] ET AL) 10 November 2016 (2016-11-10) paragraph [0127] paragraph [0143] - paragraph [0144] paragraph [0202] - paragraph [0203] paragraph [0241] paragraph [0245] paragraph [0250] paragraph [0375] - paragraph [0376] paragraph [0396] - paragraph [0399] -----	1-20, 26-28
A	WO 2017/192009 A1 (LG ELECTRONICS INC) 9 November 2017 (2017-11-09) abstract -& US 2019/132104 A1 (LEE SEUNGMIN [KR] ET AL) 2 May 2019 (2019-05-02) paragraph [0017] - paragraph [0019] paragraph [0197] paragraph [0267] -----	1-20, 26-28

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 16 April 2020	Date of mailing of the international search report 01/07/2020
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer García Larrodé, M
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2020/012935

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
US 2016330011	A1	10-11-2016	CN 106063178 A	26-10-2016
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			WO 2017192009 A1	09-11-2017

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20, 26-28

how to avoid data puncturing or data loss when a half-duplex operating UE is scheduled to receive data and transmit feedback at the same time

2. claims: 21-25, 29, 30

how to reduce congestion due to feedback transmissions in a broadcast or multicast environment

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2020/012935

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-20, 26-28

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.