

Title (en)  
POSITION OF USER EQUIPMENT

Title (de)  
POSITION VON BENUTZERGERÄTEN

Title (fr)  
POSITION D'ÉQUIPEMENT UTILISATEUR

Publication  
**EP 3918854 A4 20220706 (EN)**

Application  
**EP 20756404 A 20200214**

Priority  
• GB 201902051 A 20190214  
• KR 2020002178 W 20200214

Abstract (en)  
[origin: GB2581480A] Determining a position of a user equipment, UE, in a network. A method comprises measuring, via a downlink, DL, and/or an uplink, UL, a first measurement of a set of measurements, and further comprises estimating, at least in part, the position of the UE using the first measurement of the set of measurements. Optionally, the measurement comprises measuring via the downlink: reference signal time difference, RSTD, between neighbour transmission / reception points, TRP, and reference TRP; a RSTD between a first beam and a reference beam; RSTD between a first positioning reference signal, PRS, and a reference PRS, or between a first PRS set and reference PRS set; and/or a PRS reference signal received power, RSRP. The measurement may also comprise measuring via the uplink: a relative time of arrival, RTOA, of sounding reference signals, SRS; a PRS RSRP; a TRP receive - transmit time difference; and/or a UE receive - transmit time difference. A quality metric for a receive - transmit time difference, RSTD or RTOA may be calculated, possibly using RSRP.

IPC 8 full level  
**H04W 64/00** (2009.01); **G01S 5/02** (2010.01); **H04B 17/309** (2015.01); **H04L 5/00** (2006.01); **H04W 4/02** (2018.01); **H04W 24/10** (2009.01); **G01S 5/06** (2006.01); **G01S 5/10** (2006.01); **H04B 7/06** (2006.01); **H04W 16/28** (2009.01); **H04W 48/12** (2009.01); **H04W 88/06** (2009.01)

CPC (source: EP GB KR)  
**G01S 5/0205** (2013.01 - EP); **G01S 5/10** (2013.01 - GB); **H04B 17/309** (2015.01 - KR); **H04L 5/0048** (2013.01 - KR); **H04W 4/02** (2013.01 - EP); **H04W 4/027** (2013.01 - EP); **H04W 24/10** (2013.01 - EP KR); **H04W 64/00** (2013.01 - EP GB KR); **G01S 5/0257** (2013.01 - GB); **G01S 5/06** (2013.01 - EP); **G01S 5/10** (2013.01 - EP); **G01S 2205/008** (2013.01 - EP); **H04B 7/0617** (2013.01 - EP); **H04L 5/0048** (2013.01 - EP); **H04W 16/28** (2013.01 - EP GB); **H04W 48/12** (2013.01 - EP); **H04W 88/06** (2013.01 - EP)

Citation (search report)  
• [X] US 2018343056 A1 20181129 - RADULESCU ANDREI DRAGOS [US], et al  
• [A] WO 2019027539 A1 20190207 - QUALCOMM INC [US]  
• [A] WO 2018029663 A1 20180215 - ERICSSON TELEFON AB L M [SE]  
• See references of WO 2020167073A1

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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**GB 201902051 D0 20190403**; **GB 2581480 A 20200826**; **GB 2581480 B 20221109**; EP 3918854 A1 20211208; EP 3918854 A4 20220706; KR 20200099500 A 20200824

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