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(54) **METHODS AND NODES FOR COORDINATING UPLINK TRANSMISSIONS IN A WIRELESS COMMUNICATION NETWORK**

VERFAHREN UND KNOTEN ZUR KOORDINIERUNG VON UPLINK-ÜBERTRAGUNGEN IN EINEM DRAHTLOSEN KOMMUNIKATIONSNETZ

PROCÉDÉS ET NOEUDS POUR COORDONNER DES TRANSMISSIONS SUR LA LIAISON MONTANTE DANS UN RÉSEAU DE COMMUNICATION SANS FIL

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(56) References cited:
US-A1- 2009 131 065 US-A1- 2009 247 181
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• **"3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Stage 2 functional specification of User Equipment (UE) positioning in UTRAN (Release 10)", 3GPP STANDARD; 3GPP TS 25.305, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. V10.0.0, 7 October 2010 (2010-10-07), pages 1-80, XP050461874, [retrieved on 2010-10-07]**

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- "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); TDD Home eNode B (HeNB) Radio Frequency (RF) requirements analysis (Release 9)", 3GPP STANDARD; 3GPP TR 36.922, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. V9.1.0, 21 June 2010 (2010-06-21), pages 1-74, XP050441979, [retrieved on 2010-06-21]
- PICOCHIP DESIGNS LTD: "Use of X2 to mitigate interference between HeNBs and macro eNBs", 3GPP DRAFT; R3-082442 (X2 FOR HENB), 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. Prague, Czech Republic; 20080924, 24 September 2008 (2008-09-24), XP050323727, [retrieved on 2008-09-24]