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(54) Title: ENABLING UAS SERVICE FOR IDENTIFICATION AND OPERATION IN 3GPP SYSTEM

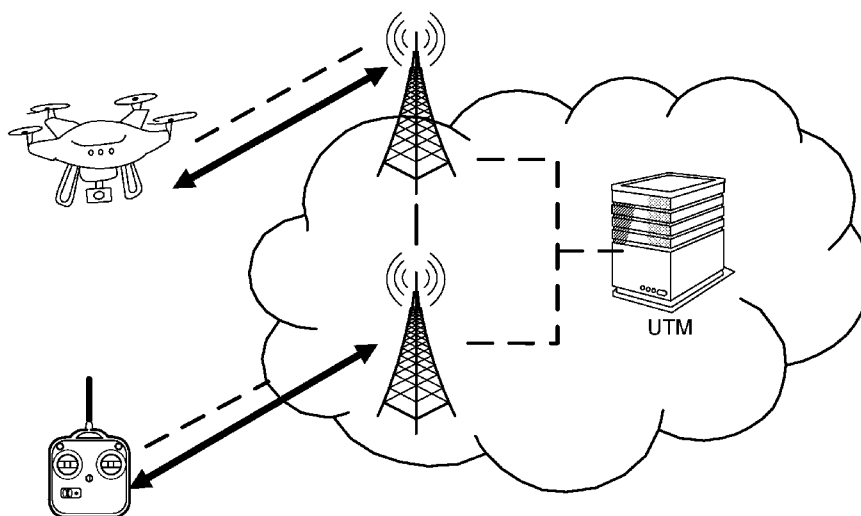


FIG. 1

(57) Abstract: Some embodiments of this disclosure include systems, apparatuses, methods, and computer-readable media for use in a wireless network for facilitating Unmanned Aerial System (UAS) services over evolved packet systems. Some embodiments are directed to a method, the method including receiving a registration request from each of an unmanned aerial vehicle (UAV) and a UAV controller to establish an Unmanned Aerial System (UAS). Additionally, the method includes initiating a UAS Operation Service Request Procedure via a network exposure function (NEF) and associating the UAV and the UAV controller to operate as the UAS in response to obtaining the results of the UAS operation service authorization from each of the UAV and the UAV controller. Moreover, the method also includes transmitting a UAS operation status update procedure to the UAV and the UAV controller, the update procedure including UAS association information, a UAS policy update, and initiation of a UAS operation.



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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.
X	WO 2018/178752 A1 (ERICSSON TELEFON AB L M [SE]) 4 October 2018 (2018-10-04) abstract; figure 1 paragraphs [0007] - [0008], [0028], [0030], [0046] - [0049], [0054], [0057] - [0058], [0064]	1-20
X	WO 2018/189576 A1 (ERICSSON TELEFON AB L M [SE]) 18 October 2018 (2018-10-18) abstract; figure 1 paragraphs [0007] - [0009], [0026], [0043] - [0045], [0051]	1,2, 7-12, 17-20
☒ 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 "E" earlier application or patent but published on or after the international filing date "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) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "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 "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 "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 "&" document member of the same patent family		
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