



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 19 84 76 57

Classification of the application (IPC):
H04L 5/00, H04W 4/46, H04W 72/04, H04W 92/18, H04W 72/10

Technical fields searched (IPC):
H04W

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2017171519 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 05 October 2017 (2017-10-05) * paragraph [0003] * * paragraph [0050] * * paragraph [0125] - paragraph [0126] * * paragraph [0154] - paragraph [0158] * * paragraph [0052] - paragraph [0053] *	1-10
A	MOTOROLA MOBILITY: "Introduction of V2V into TS36.213" , 3GPP DRAFT; 36213_CR0744_(REL-14)_R1-168226, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, 14 September 2016 (2016-09-14), vol. RAN WG1, no. Gothenburg, Sweden; 20160822 - 20160826 URL: http://www.3gpp.org/ftp/tsg%5Fran/TSG%5FRAN/TSGR%5F73/Docs/RP%2D161570%2Ezip [retrieved on 14 September 2016 (2016-09-14)] XP051661738 * page 13 *	1-10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 24 March 2022	Examiner Sklavos, Alexandros
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CATEGORY OF CITED DOCUMENTS

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-10

One or more computer-readable media having instructions that, when executed by one or more processors, cause a vehicle-based user equipment (UE) to: receive configuration information from a network the configuration information to include an indication of sidelink control resources for vehicle-to-vehicle (V2V) communication, an indication of one or more physical sidelink control channel (PSCCH) formats to be transmitted or monitored by the vehicle-based UE, and an indication of one or more sidelink control information (SCI) formats to be transmitted or monitored by the vehicle-based UE; and transmit or monitor for a PSCCH transmission that includes SCI based on the configuration information.

2. claims: 11-15

An apparatus to be employed in a vehicle-based user equipment (UE), the apparatus comprising: memory to store configuration information to indicate sidelink control resources for vehicle-to-vehicle (V2V) communication, one or more physical sidelink control channel (PSCCH) formats to be transmitted or monitored by the vehicle-based UE, and a mapping rule for mapping a PSCCH transmission to plurality of sidelink control channel elements that are frequency division multiplexed or time division multiplexed with a contiguous allocation property; and processing circuitry to cause the PSCCH transmission to be transmitted on the plurality of sidelink control channel elements or monitor the plurality of sidelink control channel elements for the PSCCH transmission based on the configuration information.

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 1-10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 24 March 2022	Examiner Sklavos, Alexandros
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Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 24-03-2022
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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO2017171519	A1	05-10-2017	US	2019069200 A1	28-02-2019
			WO	2017171519 A1	05-10-2017