Title: TWO-STAGE DEVICE-TO-DEVICE (D2D) DISCOVERY PROCEDURES

Abstract: First user equipment transmits a first synchronization signal (U-PSS) and a second synchronization signal (U-SSS) that are assigned to the first user equipment for device-to-device (D2D) communication. The first synchronization signal indicates a timing reference for D2D communication and a combination of the first synchronization signal and the second synchronization signal indicate resources allocated (subframe number) to the first user equipment to transmit discovery information for D2D communication. First user equipment detects a first synchronization signal and a second synchronization signal that are assigned to second user equipment for D2D communication.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04W76/02 H04L27/26

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)
H04W H04L

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

<table>
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<tr>
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[X] Further documents are listed in the continuation of Box C. | See patent family annex.

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Date of the actual completion of the international search
19 March 2015

Date of mailing of the international search report
27/03/2015

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