Abstract:

A method (310) for increasing network capacity for wireless mesh network, comprising the steps of initiating (320) a data transmission request between a source node (110) and a destination node (130), identifying (330) a mesh node (121) from a plurality of mesh nodes (120) which is closest to the source node (110) and a target node (129) which is closest to the destination node (130), establishing (340) multiple paths from the mesh node (121) towards the target node (129), synchronizing (370) sub-frame in the frame header for transferring packet data to the target node (129), fragmenting (380) the packet data into sub-packets to assign (390) and route (400) the sub-packets into the multiple paths, and aggregating (410) the sub-packets based on synchronization signals, arriving at the target node (129) the multiple paths at different time delay intervals, into data to be sent to the destination node (130).
(88) Date of publication of the international search report:
26 August 2010
A. CLASSIFICATION OF SUBJECT MATTER

H04W 40/02(2009.01), H04L 29/04(2006.01), H04W 84/18(2009.01)

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)

IPC H04W 40/02, H04L 29/04, H04W 84/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

(Chinese Patents and application for patent)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords wireless mesh network, capacity

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
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Further documents are listed in the continuation of Box C

See patent family annex

Date of the actual completion of the international search

29 JUNE 2010 (29 06 2010)

Date of mailing of the international search report

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