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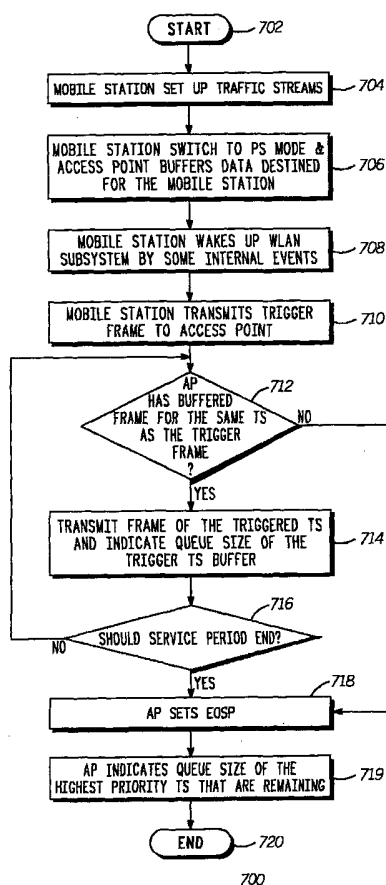
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[Continued on next page]

(54) Title: METHOD FOR INDICATING BUFFER STATUS IN A WLAN ACCESS POINT



(57) Abstract: A wireless local area network (WLAN) includes an access point (102) and a mobile station (106). The mobile station can operate in a low power mode by shutting down a WLAN subsystem (204) of the mobile station. While the mobile station is in a low power mode, the access point buffers data received at the access point destined for the mobile station (706). The mobile station wakes up to initiate a service period by transmitting a trigger frame to the access point, and identifies a traffic stream to be serviced in the presently initiated service period. The access point begins transmitting response frames to the mobile station, identifying the traffic stream requested by the mobile station, and in at least one response frame, the access point may indicate the buffer status of another traffic stream associated with the mobile station to allow the mobile station to make decisions regarding data retrieval and power save state.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/15469

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04L 12/28

US CL : 370/310

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)

U.S. : 370/310

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)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0198244 A1 (HO et al) 23 October 2003 (23.10.2003), paragraphs 0007 and 0017-0023.	1,7

Y		2-6,8-10
Y, E	US 2005/0213534 A1 (BENVENISTE) 29 September 2005 (29.09.2005), paragraphs 0011-0019, 0030-0032 and 0055-0057.	1-10
Y, E	US 2005/0169200 A1 (FISCHER) 04 August 2005 (04.08.2005), paragraphs 0022-0037, 0042-0044 and 0078-0079.	1-10



Further documents are listed in the continuation of Box C.



See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed

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INTERNATIONAL SEARCH REPORT

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PCT/US05/15469

Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: ((access adj point\$1) with (buffer\$3 or queu\$5)) and (identif\$6 with stream\$1)