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(54) **METHOD, APPARATUS, AND SYSTEM FOR DISTRIBUTED ACCESS POINTS FOR WIRELESS LOCAL AREA NETWORK (LAN)**

(76) Inventor: **Solomon B. Trainin**, Haifa (IL)
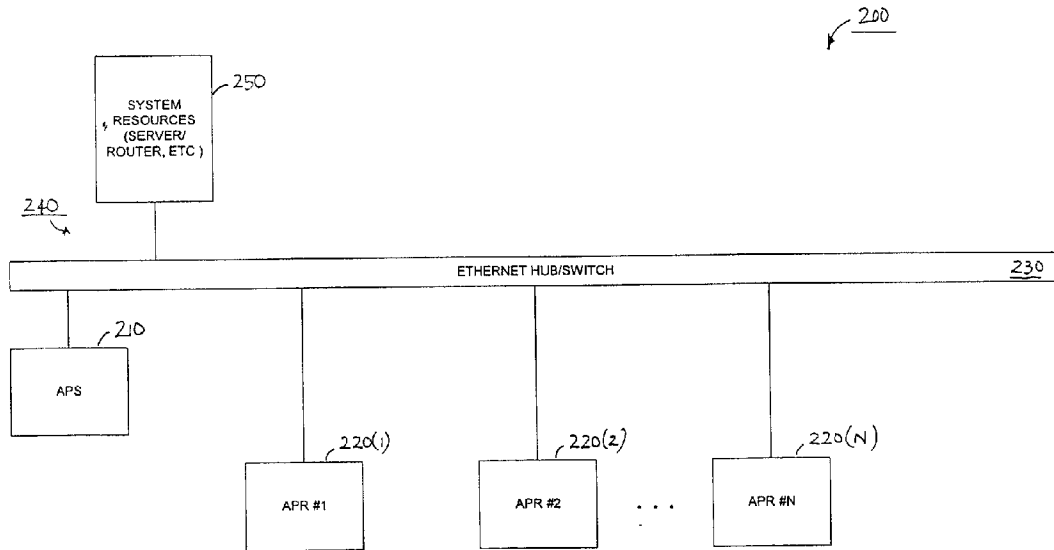
Correspondence Address:
**BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD, SEVENTH
FLOOR
LOS ANGELES, CA 90025 (US)**

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(57) **ABSTRACT**

According to one embodiment of the invention, an apparatus is provided that includes an access point repeater (APR) coupled to a wired network. The APR transmits information to and receives information from one or more associated stations according to a first wireless processing protocol. The APR performs the media access functions of the first wireless processing protocol. The apparatus further includes an access point server (APS) coupled to the APR via the wired network to transmit information to and receive information from the APR. The APS performs specific point control functions of the first wireless processing protocol.

FIG. 1

FIG. 2

220

370

360

FAST ETHERNET MAC/PHY

ADAPTIVE MULTI ADDRESSING FILTER

PRIORITIZED Tx BUFFER N	· · ·	PRIORITIZED Tx BUFFER 1	NON PRIORITIZED Tx BUFFER	Rx BUFFER	BUFFERS CONTROL LOGIC
330(N)		330(1)	335	340	350

802.11 MAC'S REAL TIME PORTION

320

802.11 PHY

310

FIG. 3

210

440 — OPERATING SYSTEM

435 — DATABASE

430 — EXTENDED AP APPLICATIONS

425 — 802.11 MAC'S MANAGEMENT PORTION (S/W)

420 — NETWORK DRIVER (S/W)

415 — ADAPTIVE MULTI ADDRESSING FILTER

410 — FAST ETHERNET MAC/PHY
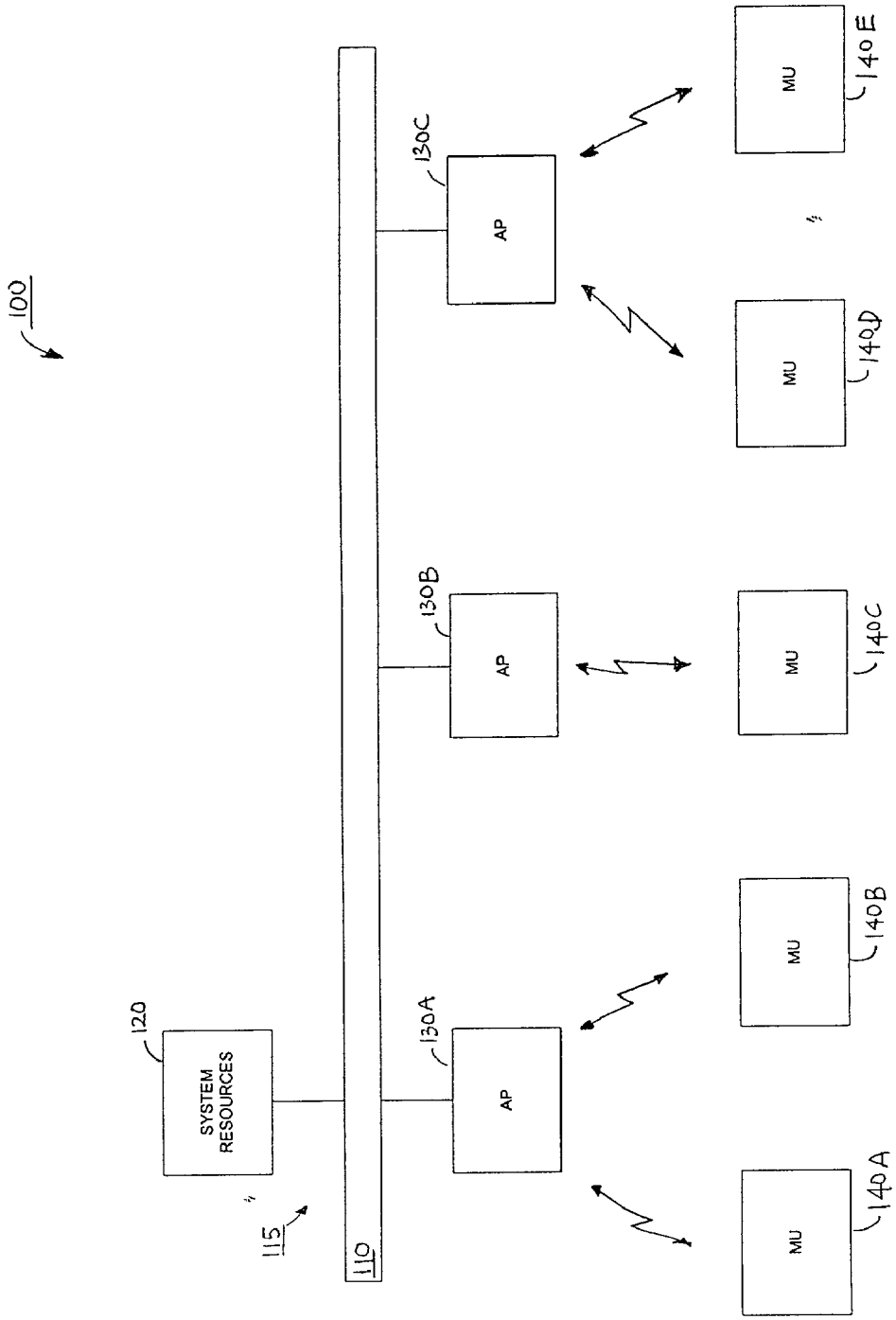
FIG. 4

DOCKET ALARM
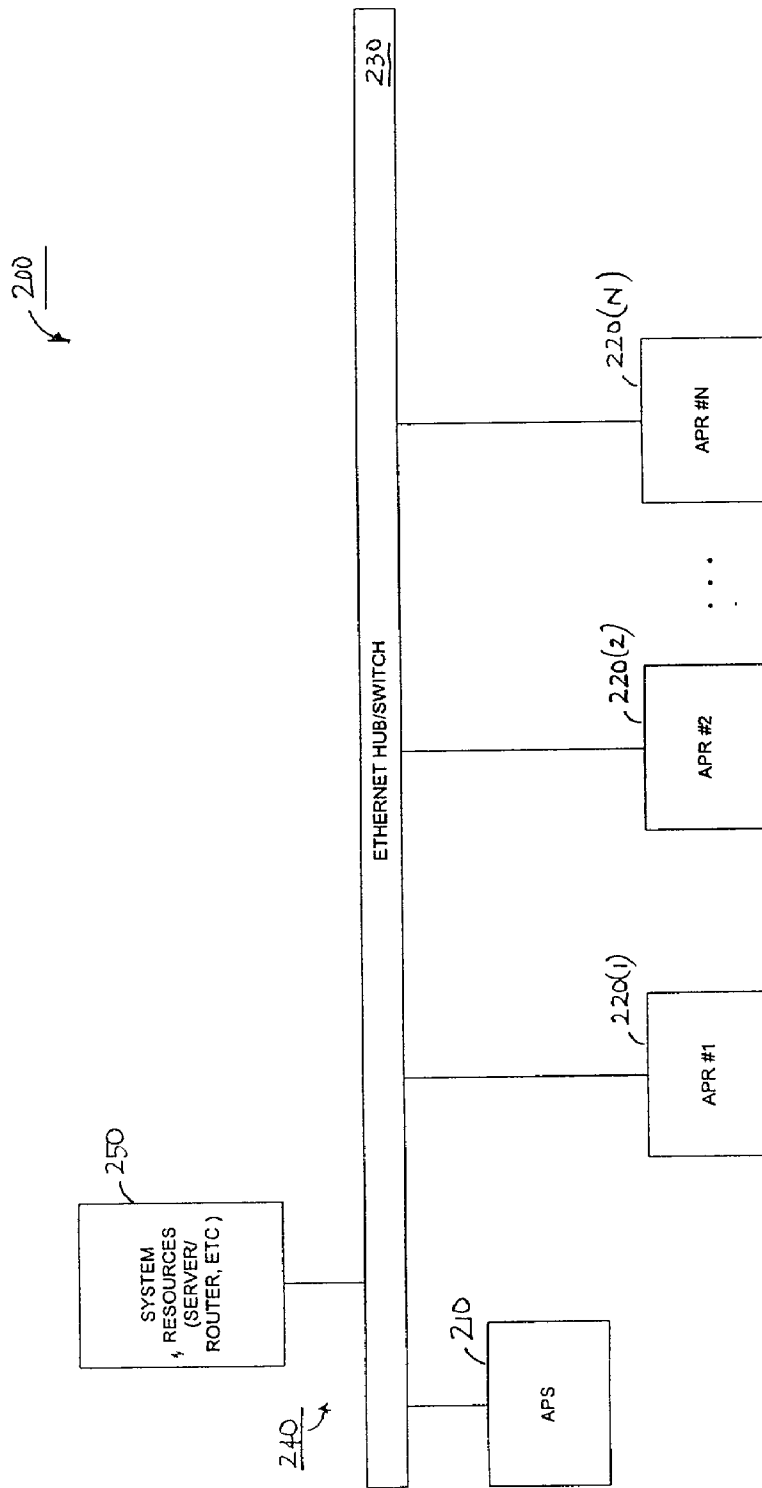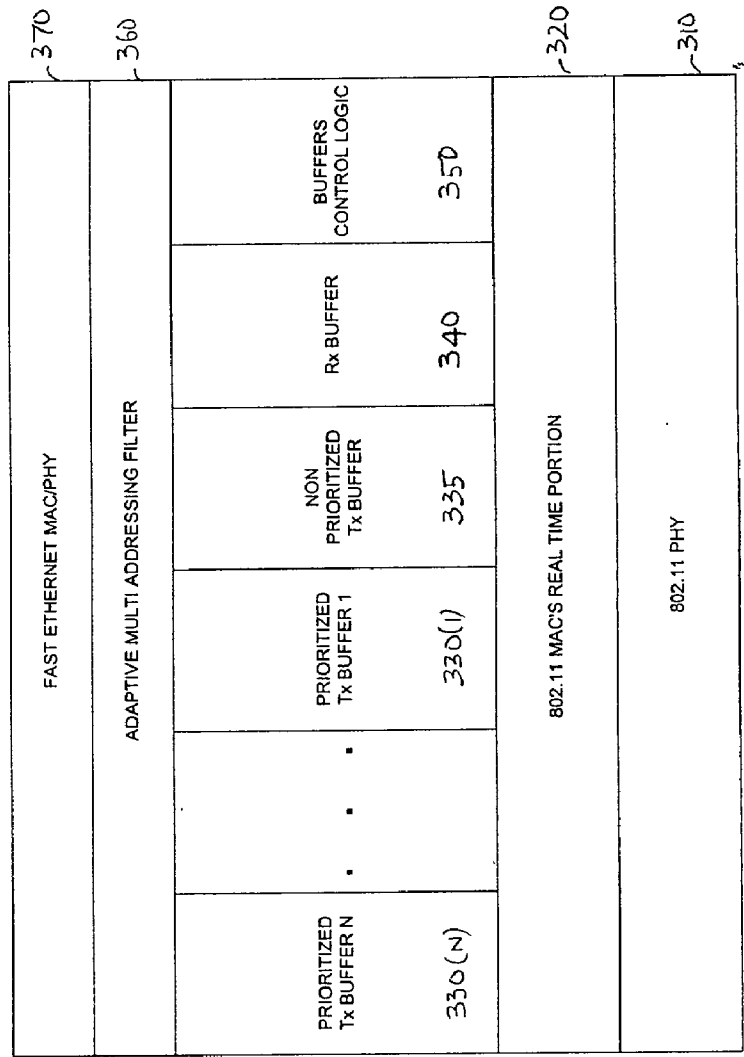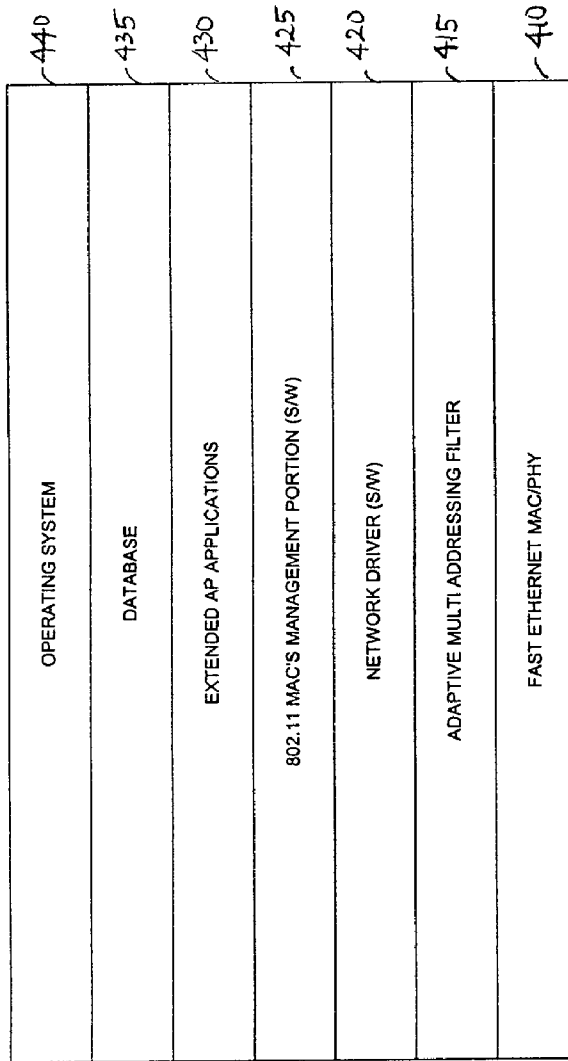
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