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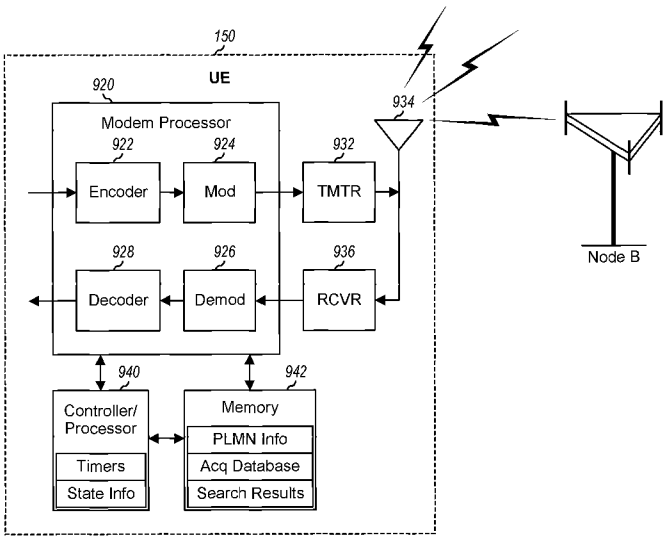
Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

[Continued on next page]

(54) **Title:** EFFICIENT SEARCH FOR WIRELESS NETWORKS IN CONNECTED MODE



(57) **Abstract:** Techniques for searching for wireless networks are described. In one scheme, a user equipment (UE) performs a manual search for detectable wireless networks while operating in a connected mode. The UE operates in the connected mode for communication with a wireless network and receives a request to search for detectable wireless networks. The UE performs a search for detectable wireless networks while operating in the connected mode, e.g., as background task during DRX time. In another scheme, the UE retains a search request received in an active state and performs a search at a later time after transitioning to an idle state. In yet another scheme, the UE efficiently handles a search across state transitions. The UE may cancel, suspend, resume, or continue the search after each transition from one state to another state based on the type of each state.

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