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(54) Title: DISTRIBUTED LEDGERS ON NETWORK GATEWAYS

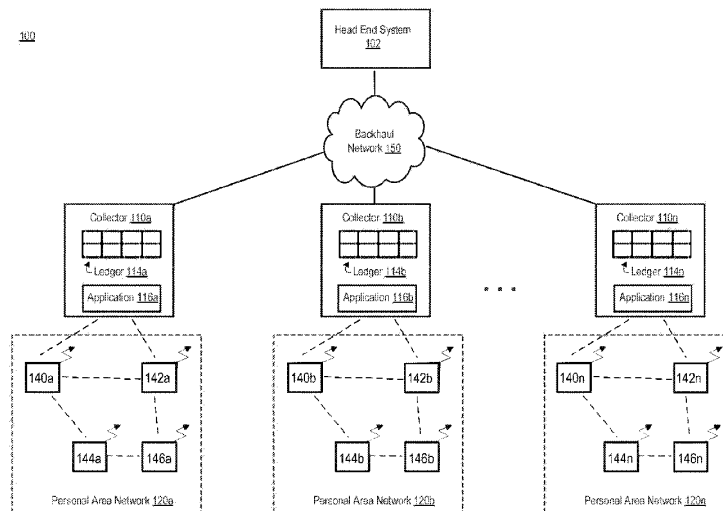


FIG. 1

(57) Abstract: Techniques are disclosed for using a distributed ledger with a utility network. The utility network includes a set of utility collectors that are connected to a backhaul network. Each of the set of utility collectors includes a memory configured to store a copy of a distributed ledger. The utility network includes personal area networks (PANs). Each of the set of utility collectors is connected to a corresponding PAN and is configured to act as a PAN coordinator for a corresponding set of utility devices on the corresponding PAN. A utility collector requests to join a distributed ledger system. The utility collector receives an approval indicating that the set of utility collectors approve of the request to join the distributed ledger system and a current state of the distributed ledger. The utility collector instantiates a copy of a distributed ledger based on the current state, thereby joining the distributed ledger system.

[Continued on next page]

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