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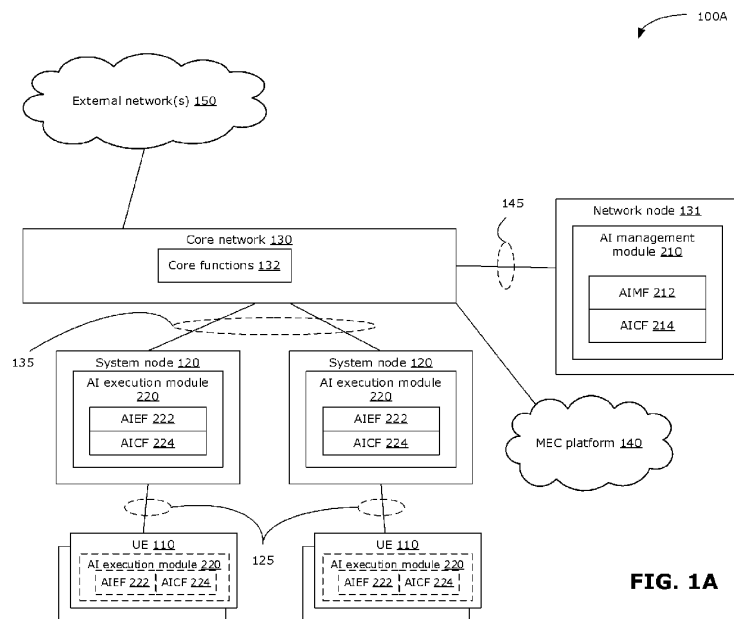


FIG. 1A

(57) Abstract: Methods and systems for artificial intelligence (AI) -based communications are disclosed. At a second node, a task request is transmitted to a first node, the task request requiring configuration of at least one of a wireless communication functionality or a local AI model at the second node. A first set of configuration information is received from the first node, including a set of model parameters for the local AI model stored in the memory of the second node. The local AI model is configured by the set of model parameters to generate inference data including at least one inferred control parameter for configuring the second node for wireless communication.

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