

(54) **SENSING AND ANALYSIS OF AMBIENT  
CONTEXTUAL SIGNALS FOR  
DISCRIMINATING BETWEEN INDOOR AND  
OUTDOOR LOCATIONS**

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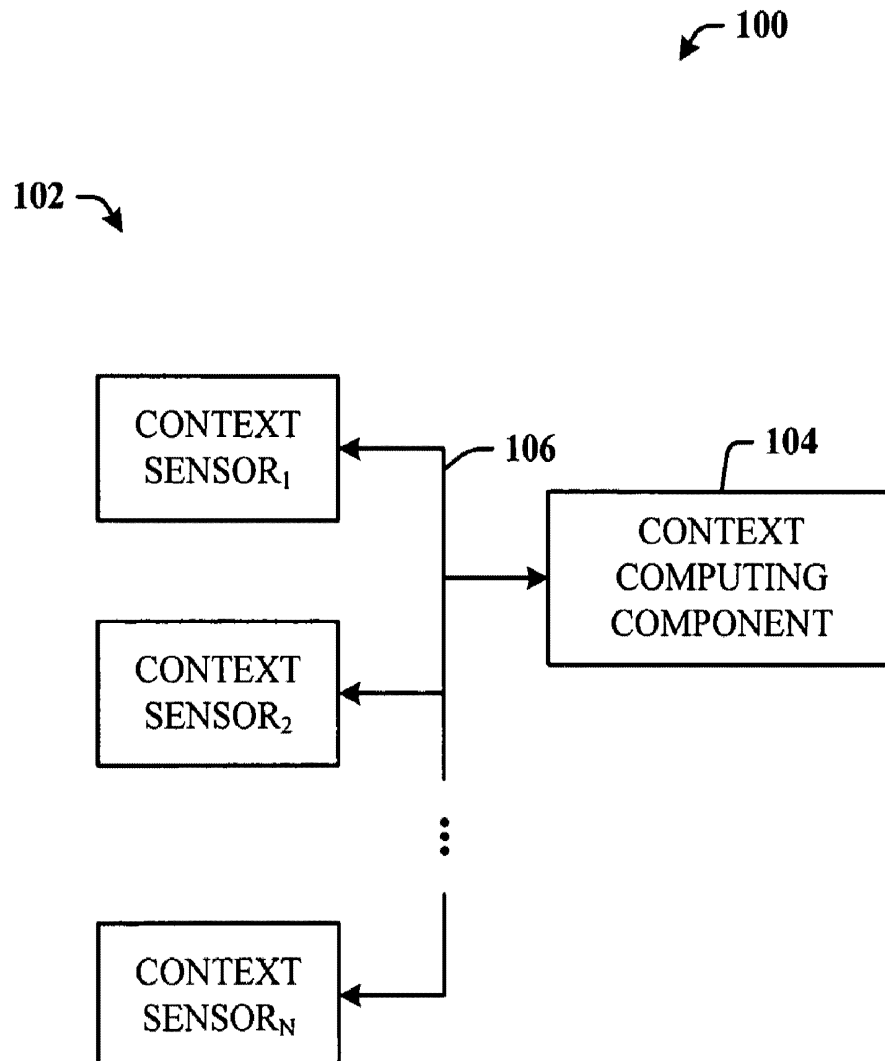
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(57) **ABSTRACT**

Methods and systems that determine automatically the likelihood that a device is inside or outside of a structure or building. The system uses one or more sensors to detect ambient conditions, and make the determination. The inference can be used to save power or suppress services from certain devices, which are irrelevant, cannot be used effectively, or do not function under certain circumstances. In support thereof, the system includes one or more context sensors that measure parameters associated probabilistically with the context of a device. A context computing component considers one or more context sensors and facilitates determination of ideal actions, policies, and situations associated with the device. A service provided by the subject invention is the inference from one or more available observations the probability that the device is inside versus outside.



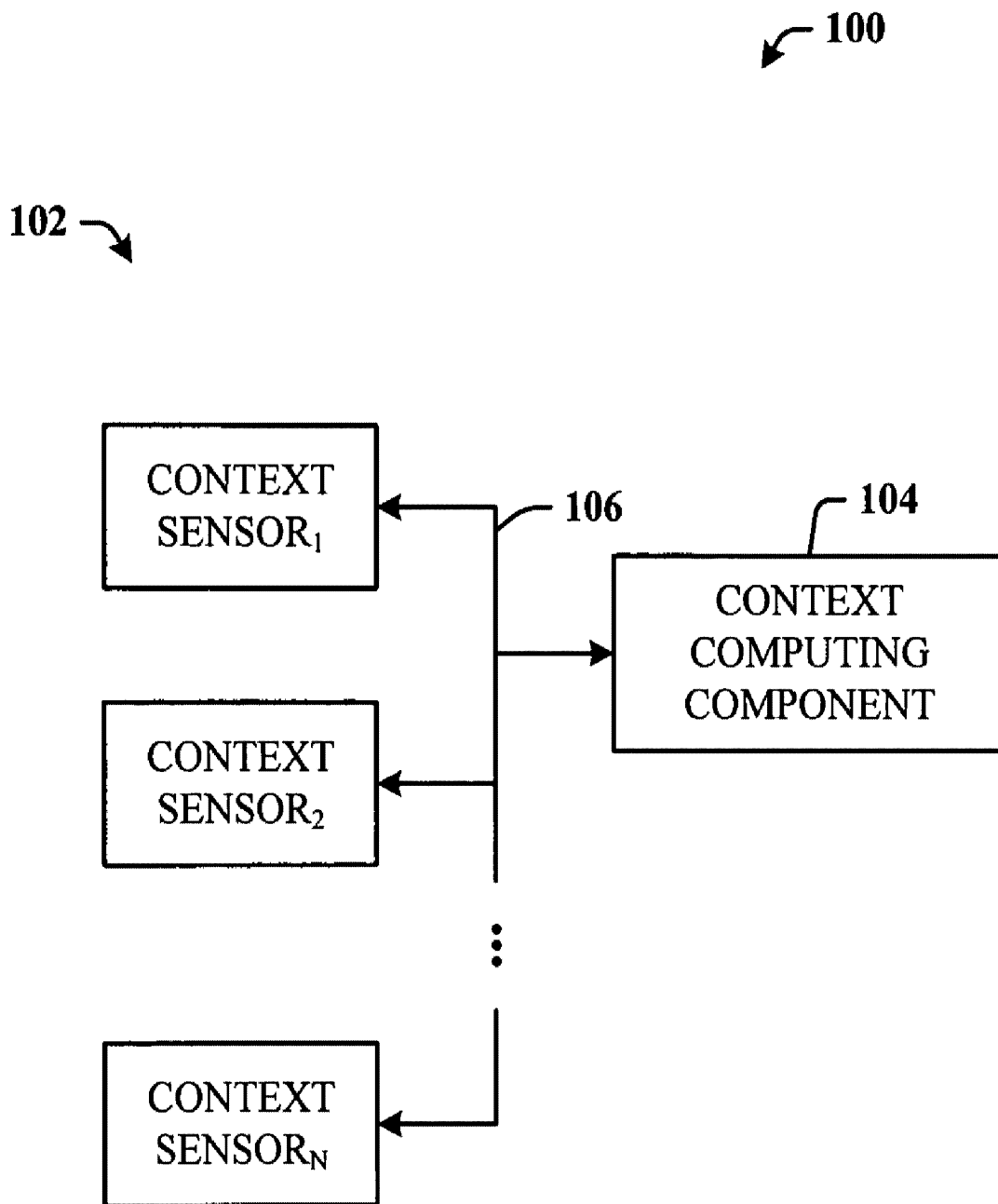


FIG. 1

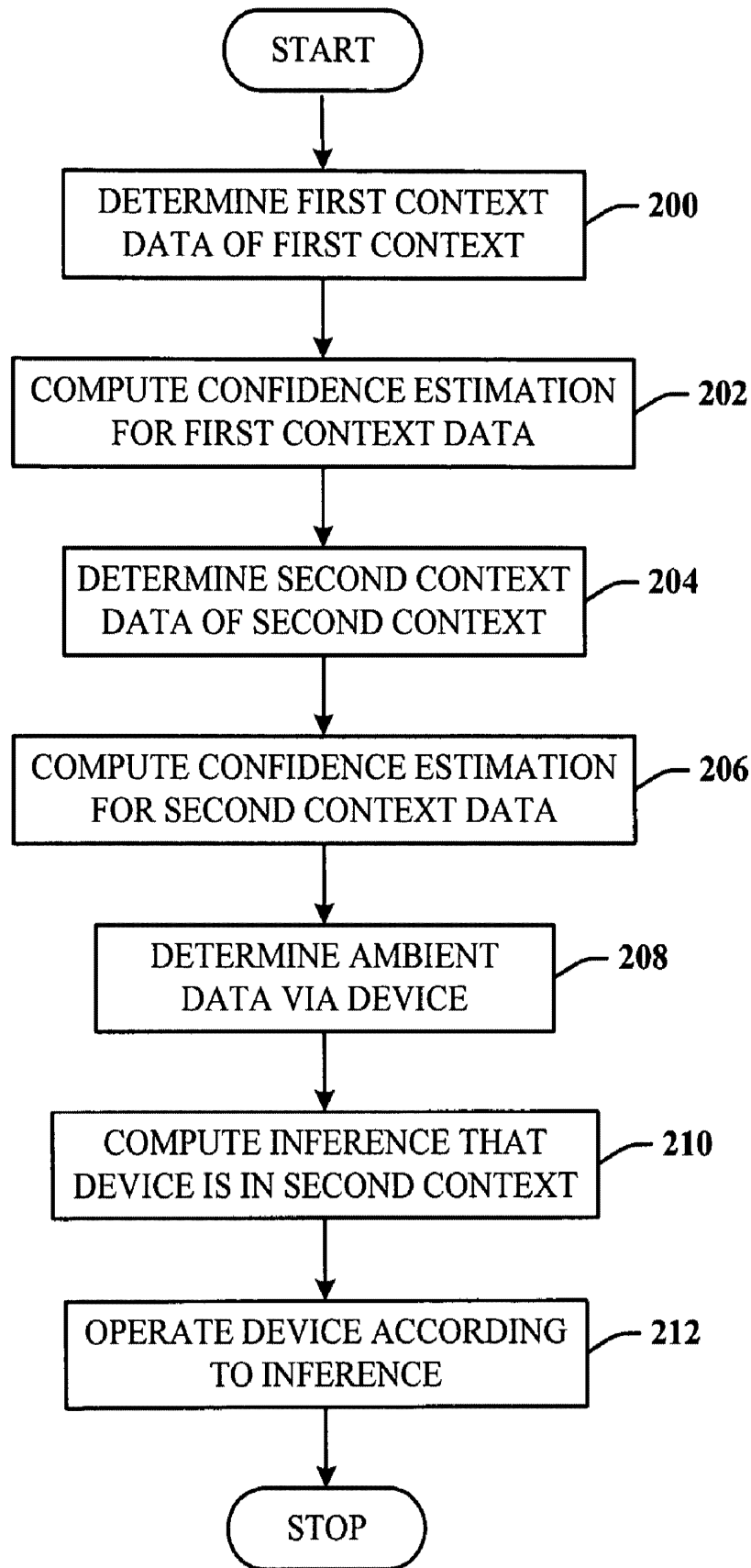


FIG. 2

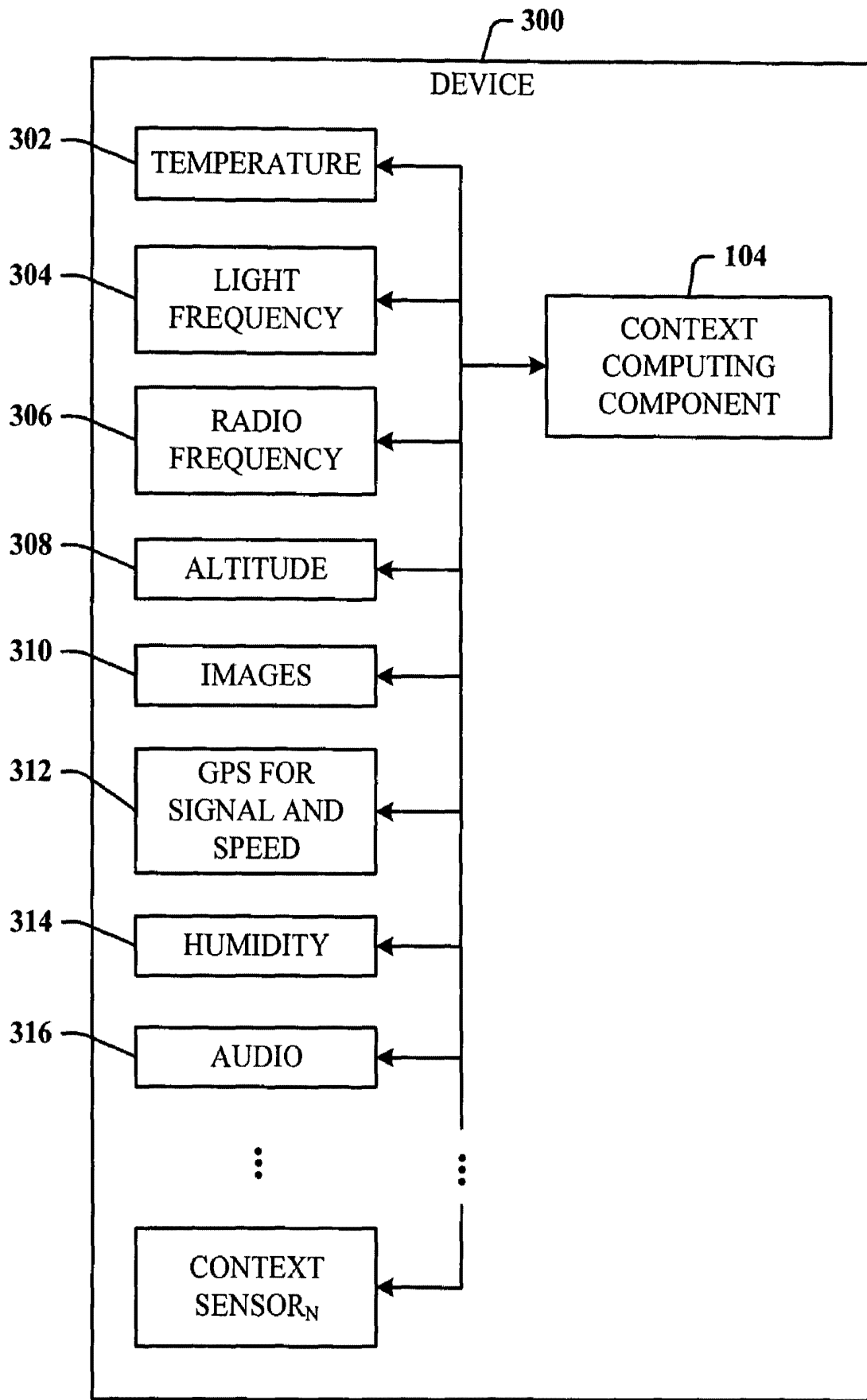


FIG. 3

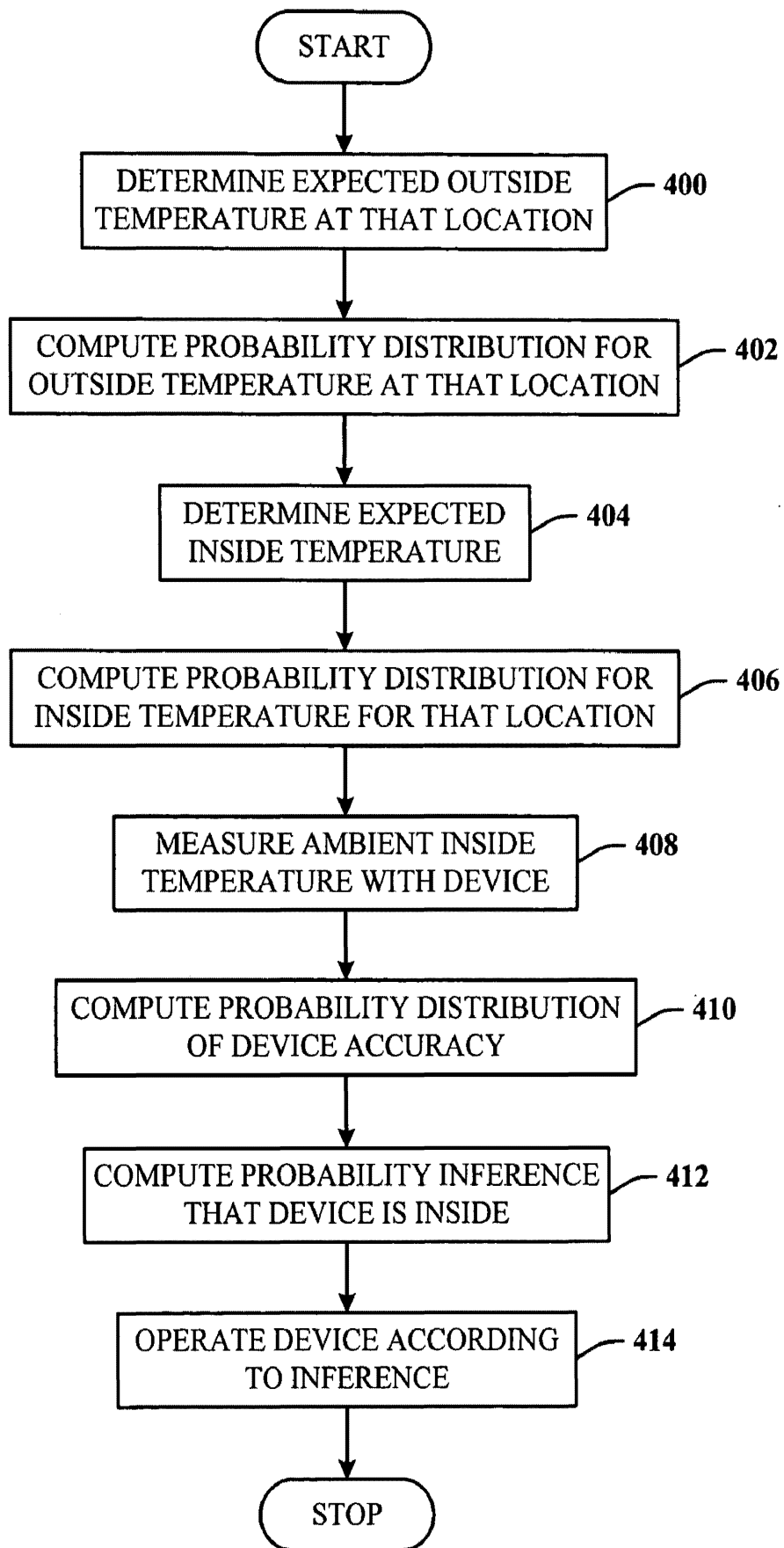


FIG. 4

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